Caution: Federal (US) law restricts this device to sale only by or on the order of a physician.

Caution: Frequency, duration, and treatment settings are to be determined by the prescribing physician.

Indications for Use: The Fresenius Liberty Select Cycler is indicated for acute and chronic peritoneal dialysis.
How to Use this User’s Guide

This User’s Guide is a reference for you to look up information about the Liberty Select Cycler. Start with the topic you are interested in, and look for it in the Table of Contents (see page 4) or in the Index (see page 254). The Table of Contents is detailed enough that you should be able to find most topics. If not, refer to the Index for further details.

Please note that the Contents Quick Search (see page 3), Glossary (see page 250), and Error Messages Tables (see page 208 and 217) also contain similar information, but presented in a slightly different way. The User’s Guide’s goal is to create many different ways for you to quickly and easily get the information.
This page is a quick reminder where to find certain procedures or further instructions:

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**Technical Support Number:** 1-800-227-2572
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My Treatment Settings

Use this page for your treatment values as prescribed by your doctor. Use only one of these prescriptions for your treatment.

**CCPD**
- **Cycles/Pauses**
  - Total volume
  - Fill volume
  - Last fill volume
- **Volumes**
  - Total sleep time
- **Times**

**CCPD**
- **Cycles/Pauses**
  - # fills
  - Fill time
  - Last fill volume
- **Volumes**
  - Dwell time
- **Times**
  - Fill time
  - Drain time
therapy

PD+

- Treatment Based

- Cycles/Pauses:
  - Total Volume
  - Fill Volume
  - # Pauses
  - Pause Volume
  - Last Fill Volume

- Volumes:
  - Total Sleep Time

- Times:
  - Cycle Based

- Cycles/Pauses:
  - # Fills
  - # Pauses
  - Last Fill Volume

- Volumes:
  - Fill Volume
  - Pause Volume

- Times:
  - Dwell Time
  - Fill Time
  - Drain Time
### Therapy

#### TIDAL

**Volumes**
- total volume
- pause volume
- first fill volume
- tidal fill volume
- tidal drain vol.
- last fill volume

**Times**
- total sleep time

#### Treatment Based

- cycles/pauses
- # pauses

#### Cycle Based

- cycles/pauses
- # fills

- volumes
  - pause volume
  - first fill volume
  - tidal fill volume
  - tidal drain vol.
  - last fill volume

- times
  - dwell time
  - fill time
  - drain time
Introduction & Overview
Introduction

Enjoy the freedom that the Liberty Select Cycler offers you. We at Fresenius Medical Care know that life on peritoneal dialysis may be complicated, but we have worked hard to make it simpler. Your Liberty Select is light, portable, and easy to operate. It has an easy to load cassette and simple touch screen menus to guide you through setup and treatment procedures. Carefully following your doctor’s instructions, you have the convenience and freedom of peritoneal dialysis at your fingertips. Be sure to read and follow all instructions and warnings listed in the User’s Guide.

Requirements

Operators of your Liberty Select Cycler machine must be trained to perform peritoneal dialysis under the direction of a physician. In addition, each operator should be:

- Knowledgeable of peritoneal dialysis procedures and how they affect the body
- Well-practiced in aseptic techniques and other peritoneal dialysis procedures
- Very familiar with the contents of this User’s Guide as well as fully trained and qualified to operate this machine. You and any other user must be able to tell between normal and abnormal operation.

Purpose of the Liberty Select Cycler

The Liberty Select Cycler is indicated for short term (acute) and long term (chronic) peritoneal dialysis.

The Liberty Select Cycler can provide the following therapies: continuous cycling peritoneal dialysis (CCPD), intermittent peritoneal dialysis (IPD), peritoneal dialysis plus (PD+), and tidal peritoneal dialysis (TPD).
**Contraindications (When this machine should not be used)**

CAPD and CCPD are effective and attractive choices for many ESRD patients; however, no one dialysis therapy is right for all patients. The following health problems may prevent you from using the Liberty Select Cycler:

- Leaks across the inside of your body’s lining (Transdiaphragmatic leakage)
- A destructive metabolism (hypercatabolism)
- Too little peritoneal membrane surface area
- Multiple abdominal surgeries

This is a guideline only. Your doctor must make the final decision whether or not any medical device is appropriate for you.

**MR (Magnetic Resonance) Unsafe:** Liberty Select Cycler must not to be used in an MR environment. Liberty Select Cycler may pose unacceptable risks to the patient, medical staff or other persons within the MR environment.

**Peritoneal Dialysis Precautions**

Your doctor has prescribed peritoneal dialysis (PD) for you. There are risks to PD, but your doctor feels it is better to perform PD than not. Here are some things your doctor should consider:

You must perform PD treatments according to the prescription given to you by your physician and the manufacturer’s instructions. Not doing so may result in harm. Abdominal pain, bleeding, infected peritoneal membrane (peritonitis), and a blocked catheter extension set can cause problems with your treatment. Some dialysate solutions are stronger (higher percentage of dextrose) than others at removing fluids. It is important to use the right dialysate solution for your needs: the wrong dialysate solution may pull too much fluid (hypovolemia/dehydration) out of your body and cause low blood pressure (hypotension) or muscle cramping. Or it may pull too little fluid (hypervolemia) and cause high blood pressure (hypertension) or swelling (edema). You must continue to correctly remove fluid from your body.

You and your PD nurse must work together to monitor your weight and blood chemistry levels. You must pay close
attention to how you feel and report any changes to your PD nurse. This will help prevent such complications as congestive heart failure, volume depletion, overfill of solution, shock, and inadequate therapy. Follow your prescription and instructions to reduce the risk of these problems that could result in serious complications.

Caregivers should carefully monitor patients for the above signs and symptoms.

About This User's Guide

This User’s Guide is a reference for properly trained home users of the Liberty Select Cycler—it does not replace formal training by your PD nurse. It cannot provide or replace clinical advice.

This User’s Guide is specially designed for easy readability and understanding. It has illustrated procedures and step-by-step instructions.

Follow your machine’s on-screen instructions. Use this User’s Guide as a guide for your machine’s screens. You should read the entire User’s Guide before beginning your treatment. Take note of attention boxes, explained below:

Attention Boxes

**Warning**: This symbol warns against an action or situation that could hurt you. If you do not follow these instructions, it can lead to serious injury or death.

**Shock Hazard**: This symbol means you could get a severe electrical shock if you use the equipment wrong.

**Caution**: This symbol means you will damage your machine if you do not follow instructions.

**Note**: This symbol means there is extra information about machine features. Notes have helpful information. They may also show instructions for unique cases.
### Other Important Symbols

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Electric Shock" /></td>
<td><strong>Degree of protection against electric shock</strong>: Type BF</td>
</tr>
<tr>
<td><img src="image" alt="Alternating Current" /></td>
<td>Symbol for Alternating Current (AC).</td>
</tr>
<tr>
<td><img src="image" alt="Protective Ground" /></td>
<td>Symbol for a Protective ground terminal.</td>
</tr>
<tr>
<td><img src="image" alt="Finger Pinch" /></td>
<td>This symbol with the finger pinch in the background means to keep fingers clear of any moving parts.</td>
</tr>
<tr>
<td><img src="image" alt="ON" /></td>
<td><strong>ON</strong>: This symbol, at the top of the switch on the back of your machine, means the switch is in the ON position.</td>
</tr>
<tr>
<td><img src="image" alt="OFF" /></td>
<td><strong>OFF</strong>: This symbol, at the bottom of the switch on the back of your machine, means the switch is in the OFF position.</td>
</tr>
<tr>
<td><img src="image" alt="USB" /></td>
<td>This symbol stands for the USB port located on the back of the machine which allows connections to an IQdrive.</td>
</tr>
<tr>
<td><img src="image" alt="RS232 Serial Port" /></td>
<td>This symbol stands for the RS232 Serial Port Connection on the cycler’s rear panel (for modem only).</td>
</tr>
<tr>
<td><img src="image" alt="Operating Instructions" /></td>
<td>This symbol on the back of your cycler means to consult the operating instructions for proper use of the equipment.</td>
</tr>
<tr>
<td><img src="image" alt="MR Unsafe" /></td>
<td><strong>MR (Magnetic Resonance) unsafe</strong>: This symbol, on the back of your machine, means the machine must not be placed in an MR environment.</td>
</tr>
<tr>
<td><img src="image" alt="Interference" /></td>
<td>This symbol on the back of your cycler indicates that Interference may occur in the vicinity of the machine.</td>
</tr>
</tbody>
</table>
Peritoneal Cycler Preventive Maintenance:

All Fresenius Medical Care Peritoneal Cyclers are designed to detect drifting calibrations and mechanical failures through an extensive self-check built into the machine. This check is done each time the machine is powered on. Functional parameters are also continuously monitored throughout the treatment. The only required maintenance is surface cleaning as stated in the User’s Guide.

If problems do occur, in most cases Fresenius Medical Care will either replace or repair the cycler within 1 working day and, if applicable, make arrangements to pick up the used cycler. The replacement policy applies only to those cyclers that remain the property of Fresenius USA, Inc. History files on these devices are maintained by Fresenius USA, Inc.

Related Reading

These documents have more information about your Liberty Select Cycler:

- Liberty Select Cycler Initiating Treatment Procedure Card
- Liberty Select Cycler Handi-Guide
- Liberty Select Cycler Field Service Bulletins may be obtained from the Fresenius Medical Care website: www.FMCNA.com or contact your healthcare professional for more information.

Questions? Call Technical Support

If you have any questions, please call a Fresenius Medical Care Technical Support Representative anytime at 1-800-227-2572.
General Warnings

Read all the warnings before beginning your treatment. Additional warning statements for each topic are found throughout the User’s Guide.

**Warning:** Read this entire User’s Guide before beginning your treatment. You must be familiar with how to use your machine and with the features of this User’s Guide. If you do not follow these instructions to install and maintain this equipment, it may cause serious injury or death.

**Warning:** Protective measures **MUST** be taken to prevent backup in the drain line. When connecting the drain line, ensure that an air gap is maintained between the drain line and the drain.

**Warning:** Your doctor must prescribe your entire treatment. If you use incorrect values, it may cause serious injury or death. Do not use example values shown in machine pictures.

**Warning:** In the event of an **incomplete treatment**, call your doctor or PD nurse.

**Warning:** Check for proper functioning of your machine before beginning your treatment. Alarm failure or unidentified problems could lead to serious health risks.

**Warning:** Keep fingers clear of moving parts.

**Warning:** The Liberty Select Cycler is not sterile equipment. Only the interior of the tubing sets are sterilized. You must use aseptic technique (masking and hand washing) as directed by your PD nurse to prevent infection. Infections may cause serious injury or death.

**Warning:** Check the heater tray to be sure it is free of obstructions and does not touch the top of your cycler cabinet. Interference with the heater tray may result in inaccurate dialysate weighing and possibly result in patient injury.
**Warning:** Explosion Hazard. Do not use in the presence of flammable substances like anesthetics.

**Warning:** Check that all tubing is free from kinks or damage (scratches, loose tubing, small holes) before beginning treatment.

**Warning:** Do not use damaged cassettes for your treatment. Damaged cassettes can lead to leaks, contamination, and infection.

**Warning:** Do not allow any liquid to drip in or on your machine. Spills from your treatment can lead to serious injury or death. If spills occur, immediately contact a Fresenius Medical Care Technical Support Representative at 1-800-227-2572. Do not attempt to clean or disinfect leaks inside your cycler.

**Warning:** You must clean your machine to prevent contamination and infection.

**Warning:** Do not use devices emitting strong electromagnetic radiation such as portable phones, radio equipment (walkie-talkies, etc.), radio transmitters, and like equipment near your machine. Improper operation may result. Digital phones may be conditionally allowed. Discontinue use of any device if any interference is noted, such as false pressure readings that disappear when the external signal is removed.

**Warning:** You must keep your machine away from pets, pests and children to prevent contamination and infection.

**Warning:** Use caution when handling the cycler tubing set as it may cause strangulation.

**Warning:** The power cord, tubing set and drain line(s) can be a trip hazard and may result in falls.

**Warning:** If the fluid in the drain line appears cloudy, contact your PD nurse because this could be an early sign of infection.
**Warning:** Increased Intraperitoneal Volume (IIPV), commonly known as Overfill, is when you have too much fluid in your abdomen. IIPV/overfill may result in serious injury or death from conditions such as: abdominal wall and/or diaphragmatic hernias, hydrothorax, heart problems including chest pain and heart failure, high blood pressure, pulmonary edema, decreased pulmonary function and pericardial effusion.

Patients and caregivers should watch for the potential signs of IIPV. These include:

- Difficulty breathing
- Vomiting or spitting up
- Feeling full, bloated, or overfilled after treatment
- Abdominal pain or discomfort
- Expanded or tense abdomen
- Chest pain
- Increased blood pressure
- Change in mental status
- Leakage of fluid from the PD catheter extension exit site.

If you experience any of these symptoms or feel a large, painful build-up of pressure during your fill, do not finish your fill cycle. Press the STOP key and immediately initiate a STAT Drain or perform a manual drain as instructed by your PD nurse. See page 174 for more information on how to use the STAT Drain feature. Once the fluid is completely drained from your abdomen, call your doctor or PD nurse.

**Warning:** If you have no Last Fill programmed on your cycler and you did a manual Fill during the day, your cycler does not know that you must drain additional fluid. If your catheter extension set line then gets kinked during Drain 0 and the draining stops, your cycler may advance to Fill 1 before you have finished draining. This may cause an overfill situation which may lead to serious injury or death. Always make sure that you have drained enough during Drain 0 when your cycler starts Fill 1.

Drain 0 may be bypassed under certain circumstances. If using a daytime dwell, please consult your PD nurse before bypassing Drain 0. See page 176 for more information.
**Warning:** Shock hazard. Do not remove Heater Tray. Refer servicing to qualified personnel. The electrical source must be single phase, three-conductor type at 120/250 VAC 50/60Hz. Your cycler needs a protective earth electrical ground connection. The outlet you use for your cycler must be checked and maintained for a good ground connection to protect you from risk of electrical shock.

**Warning:** Shock hazard. The machine must be plugged directly into an electrical outlet; do not use extension cords or power strips. Do not use power cords other than those provided with your cycler. Do not use the power cord if broken or damaged. If you must connect your cycler to a 240V power source, contact a Fresenius Medical Care Technical Support Representative at 1-800-227-2572 for a power cord rated for 240V.

**Caution:** Do not place your cycler near external heating or cooling sources like heaters or air conditioners.

**Caution:** Your Liberty Select Cycler contains an internal battery. This battery requires no periodic maintenance and you should not attempt to replace it.

**Caution:** Your Liberty Select Cycler is a computer controlled electro-mechanical medical device. It should be installed in an appropriate environment (indoors) free from extremes of temperature and humidity and reasonably protected from dust and dirt contamination or liquid splashes. Failure to install your Liberty Select Cycler according to these guidelines may result in improper operation or early failure of the device or its parts.

**Caution:** The maximum total weight on your cycler’s scale is 15 kg (33 lbs.), or two solution bags (5000 mL or 6000 mL). Overloading the scale can cause damage to your cycler.

**Caution:** Use only cycler tubing sets intended for the Liberty Select Cycler.

**Caution:** Use only your fingertips on the Touch Screen and cycler keys. Use of other objects, such as pens, may result in damage or premature failure.
**Caution:** The cassette door is pressurized. Do not attempt to open the cassette door until your machine instructs you to do so.

**Caution:** Use of accessories, transducers and cables other than those provided with your cycler may result in increased emissions or decreased immunity of the cycler and result in improper operation.

**Caution:** In order to prevent potentially hazardous conditions and ensure the safe operation of the Liberty Select Cycler, Radio Frequency Identification (RFID) Equipment or other RF emitting devices must be kept at least 3 meters from the system while in operation.

**Note:** Your machine’s operation involves fluids: accidental spills can occur. Spills can cause damage to carpeting and other surfaces. To contain such spills, your machine should be on a spill-tolerant surface. Clean up spills immediately.

**Note:** This User’s Guide shows tubing set model 050-87212 which has two stay•safe PIN connectors on the patient line. If you use a different tubing set, your PD nurse is responsible for providing alternate instructions. Fresenius Medical Care manufactures tubing sets for use with the model Liberty Select Cycler. The performance of tubing sets not manufactured by Fresenius Medical Care cannot be guaranteed by Fresenius Medical Care and are therefore the responsibility of the prescribing doctor.

**Note:** Under normal operating conditions, the expected useful life of the Liberty Select Cycler is five years.

**Note:** If it becomes necessary to disconnect, the set in use must have a second unused sterile PIN connector available to resume treatment. After safely disconnecting PIN connector 1, using PIN technology, and attaching a sterile cap to the extension set, prepare and insert the sterile PIN connector (PIN connector 2), so it is ready for reconnection later. If this is not done, there is a chance you could attempt to connect to the used PIN connector (PIN connector 1). This same procedure should also be followed when you perform a Pause exchange.
Meet Your Liberty Select Cycler
Liberty Select Cycler Features

Your Liberty Select Cycler helps your body to do the work of your kidneys. Your cycler pumps dialysate (a cleansing solution used to draw waste products and extra fluids out of your blood) into your empty peritoneal cavity. There it absorbs waste through your body’s natural membrane over a set amount of time. When that time is completed, your cycler drains the waste from your body. Your machine repeats this as often as your doctor prescribes. All dialysate and waste pass through a disposable sterile tubing set that is discarded after each treatment.

This User’s Guide features treatment walkthroughs for each type of dialysis therapy. Please read the entire User’s Guide to learn about the features of your Liberty Select Cycler before beginning your treatment. For a summary of the types of therapy, please see page 133.
Your Liberty Select Cycler - Front View
Your Liberty Select Cycler - Rear View
The Control Panel
Control Panel
The Control Panel contains all the keys and buttons you need to set up and run your treatment.

Touch Screen
The Touch Screen is a viewing screen that reacts to fingertip pressure. Using the Touch Screen, you may monitor your treatment and select treatment options with Touch Screen Buttons. The different types of Touch Screen Buttons are described on page 30.

Status Bar
See page 28 for a description of the Status Bar.

Main Area
The Touch Screen Main Area shows information and procedures. You may also make treatment selections there.

Button Area
The Button Area contains movement-buttons like Next, Back, and Details.

Up/Down Arrow keys
The Up/Down Arrow (▼/▲) keys are used to raise or lower button values.

OK key
The OK key confirms Touch Screen selections. In treatment procedures, the OK key also moves you to the next step. During certain actions like Drain and Fill, you may use the OK key to bypass that action. Press and hold the OK key for about four seconds to display the “Bypass” screen. There you may choose to bypass a phase of your treatment or not (see page 180 for instructions on how to perform bypass).

STOP key
The STOP key stops functions on your machine. Pressing the STOP key during an audible alarm will silence the alarm for ten minutes.
The Status Bar

- **Ready Support**
  - 6/18/2016 3:52 PM

- **Flushing**
  - 6/18/2016 3:53 PM

- **Priming Stopped**
  - 6/18/2016 3:55 PM

- **Self Test Warning**
  - 6/18/2016 4:03 PM

- **Treatment Alarm**
  - 6/18/2016 4:03 PM
Status Bar

The Status Bar is located at the top of the Touch Screen. It displays various modes, warnings, alarms, and the date and time. The Status Bar background changes between five different colors to display your machine’s conditions (as shown to the left):

**Blue**

You must interact with the machine following prompts to advance the treatment or resolve a support screen message.

**Green**

When your machine is performing an action such as fill, flush, prime, pause, dwell, or drain, the background changes to green.

**Yellow**

The background changes to yellow whenever you press the **STOP** key during an action (see Green). See “Using the **STOP** key” on page 172.

**Orange**

Orange warnings need your immediate attention. During a warning, the Status Bar background changes to orange, the screen-buttons are unavailable, all actions stop, and an audible alarm sounds. Press the **STOP** key to silence the alarm.

**Red**

Red background alarms are critical faults in your machine. All actions stop, the screen-buttons are unavailable, and an audible alarm sounds. If the Status Bar changes to red, you must stop your treatment and call a Fresenius Medical Care Technical Support Representative at **1-800-227-2572**. For more information on alarms, see “Warnings and Alarms,” on page 194.
### Touch Screen Buttons

<table>
<thead>
<tr>
<th></th>
<th>Normal</th>
<th>Selected</th>
<th>Unavailable or Display Only</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Screen-Buttons</strong></td>
<td>Bright color or background color</td>
<td>Darker color or lighter background color</td>
<td>Gray or light blue</td>
</tr>
<tr>
<td>My Treatment</td>
<td>My Treatment</td>
<td>My Treatment</td>
<td>My Treatment</td>
</tr>
<tr>
<td>therapy</td>
<td>therapy</td>
<td>therapy</td>
<td></td>
</tr>
<tr>
<td><strong>Movement-Buttons</strong></td>
<td>Back</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Next</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Parameter-Buttons</strong></td>
<td>CCPD</td>
<td>CCPD</td>
<td>CCPD</td>
</tr>
<tr>
<td>dwell time</td>
<td>dwell time</td>
<td>dwell time</td>
<td>dwell time</td>
</tr>
<tr>
<td>0 hr 55 min</td>
<td>0 hr 55 min</td>
<td>0 hr 40 min</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** The values shown here are for example only. You must use the values prescribed by your doctor.
Buttons Overview

Buttons are shapes with text in them on the Touch Screen. Buttons perform certain actions when touched.

Screen-Buttons

Screen-buttons are oval shaped. They are usually located along the top of the Touch Screen in the Status Bar. Screen-buttons act as a ‘doorway’ to another set of screens. When you touch a screen-button, it turns to a lighter color and its screen is displayed. Screen-buttons are the same color as the Status Bar’s background. Grayed-out screen-buttons are unavailable. Screen-buttons also appear in the “Settings” screen as tabs along the top of the Main Area. See the next page for more information about each of the Status Bar screen-buttons.

Movement-Buttons

Movement-buttons are light-blue, oval shaped buttons. They are usually located in the button area of the Touch Screen. Movement-buttons move you from a screen to its sub-screen and back. For example, in a “Treatment” screen, the Details movement-button will move you to a screen showing the “Treatment” screen’s details.

Parameter-Buttons

Parameter-buttons are light yellow rectangles that display treatment values. When you touch a parameter-button, it turns orange, allowing you to edit the parameter it displays. Depending on the button, you may edit that parameter either directly or through another screen using other keys and buttons. Grayed-out parameter-buttons are unavailable options. Blue parameter-buttons are not editable; they display treatment settings affected by other active parameter-buttons.
Navigating With Screen-Buttons

My Settings

My Treatment  My Settings  My Records

therapy  patient  options  hardware

your first name
Michael

your last name
Smith

your ID
123456789

weight
69.5 kgs

date of birth
04/29/1959

gender
Male

Screen-buttons

Note: The values shown here are for example only. You must use the values prescribed by your doctor.
My Treatment

The My Treatment screen-button runs your selected treatment procedure. See “Starting Your Treatment,” on page 96, for more information.

My Settings

The My Settings screen-button allows you to edit various settings. In the “Settings” screens, you may enter treatment settings, patient information, and software and hardware options. See “Entering Your Treatment Settings,” on pages 52-91, for instructions on entering your treatment settings.

My Records

The My Records screen-button allows you to view your current treatment data and treatment data from past treatments. For more information, see “The My Records Screen-Button,” on page 166.
The Pump Module

- Door Sensor
- Cassette Guide Pins
- Cassette Pump Plate
- Door Latch
- Safety Clamp
- Pressure Sensor
- Valves
- Cassette Catch
- Pump Heads
- Cassette Door
**Pump Module**

The Pump Module is responsible for moving dialysate solution to and from your body. It controls the valves and pumping chambers in the cassette.

**Door Sensor**

The Door Sensor tells the machine when the door is open or closed.

**Caution:** Do not touch the door sensor. Doing so will cause your machine to sense a closed door, pressurizing the cassette door.

**Safety Clamp**

The Safety Clamp is a metal bar that instantly clamps all the cassette tubing during an alarm or a power failure. If the Safety Clamp is sticking out, you will not be able to insert the cassette properly. Turn the machine off. Wait 10 seconds and turn it back on. This will retract the Safety Clamp, and you can now insert the cassette.

**Pressure Sensors**

The Cassette Pump Plate also features two white pressure sensors to monitor you during treatment.

**Caution:** Do not touch the white pressure sensors in the Pump Module. Pressing on the pressure sensors may cause serious damage to them.

**Cassette Guide Pins and Cassette Catch**

When the cassette is inserted during set up, it fits up and under the metal guide pins at the top of the Cassette Pump Plate. At the bottom of the Cassette Pump Plate, the Cassette Catch holds the bottom of the cassette in place. The cassette should hang freely from the edge of the Liberty Select Cycler.

**Cassette Pump Plate**

The Cassette Pump Plate is a thick metal partition. The pumps and valves are located behind the plate and they push through the holes in it to compress the cassette.

**Caution:** When the cassette is properly inserted in your machine, the domes will face outward. If you insert the cassette in your machine the wrong way, it may damage your machine.
**Cassette Door**

The Cassette Door holds the cassette in place against the Cassette Pump Plate when locked.

**Door Latch**

The Door Latch locks the Pump Door. During treatment, do not attempt to unlatch the Pump Door unless instructed to do so.

---

**Warning:** Keep fingers clear of moving parts.
The Cassette and Tubing Set

- stay•safe PIN Connector
- Patient Line (Blue Clamp)
- Last Bag (Green Clamp)
- Solution Bags (White Clamp)
- Heater Bag (Red Clamp)
- Drain (Yellow Clamp)

stay•safe PIN connector 1
stay•safe PIN connector 2
Cassette

All clean dialysate and cleared waste pass through a disposable sterile tubing set that is discarded after each treatment. The hard plastic piece that is inserted into your cycler is called a cassette. The cassette has two large, plastic domes. When the cycler pushes in on the membrane behind them, fluid moves through the lines. The cassette also has smaller domes or valves that, when compressed, open or close a fluid path-way.

Below the cassette is an attached tubing set that varies by model number. A dark blue tubing Organizer holds each of the following lines in place while you connect:

**stay•safe PIN Connector**

The stay•safe PIN connector is on the end of the Patient Line (blue clamp). Depending upon your clinical needs, you may be prescribed a set with two (2) PIN connectors (PIN connector 1 and PIN connector 2). PIN connector 2 is wrapped in plastic, and should be used as instructed by your PD nurse. There is a blue PIN at the end and a blue PIN inside the connector. When you press the blue PIN, the PIN inside closes the line without you having to touch it. Do not push in the PIN until instructed to do so by the Liberty screens. When it is time to do so, you will turn the PIN on the PIN connector clockwise ¼ turn and firmly push in the blue button. The PIN will be released and introduced into the catheter extension set automatically.

**Patient Line (blue clamp)**

The Patient Line has a blue clamp. It connects to your catheter extension set. **The blue clamp must remain open throughout the cycler setup and treatment.**

**Last Bag Line (green clamp)**

The Bag 4 Line has a green clamp. It connects to your last bag if needed. The last bag may be used for more solution or a different solution (with medications added or with a different glucose concentration) for your last fill.

**Solution Bag Line 3 (white clamp)**

The Bag 3 Line has a white clamp. It connects to your third bag if needed.

(continued)
Solution Bag Line 2 (white clamp)
The Bag 2 Line has a white clamp. It connects to your second bag if needed.

Solution Bag Line 1 (white clamp)
The Bag 1 Line has a white clamp. It connects to your first bag if needed.

Heater Bag Line (red clamp)
The Heater Bag Line has a red clamp. It connects to the dialysate solution bag on the Heater Tray.

Drain line (yellow clamp)
The Drain Line has a yellow clamp. It connects to your drain line extension or the drain bag set.
This Page is Intentionally Blank
The stay•safe Organizer

Insert below Control Panel

New Cap Holder  stay•safe Organizer Clip  Tubing Channel  Extension Cap Holder

New Cap  Extension
The stay•safe Organizer

When you use aseptic technique in your treatment, you reduce the risk of infections. The Liberty Cycler set includes stay•safe PIN connectors that encourage aseptic technique. Insert the stay•safe Organizer onto the mounting tab on your cycler below the Control Panel. Your Liberty Cycler set will be ready to hold your stay•safe PIN connector during your treatment setup. For more information about the stay•safe PIN connector, see page 38.

New Cap Holder

Insert a new stay•safe cap into this holder to keep it clean while using both hands to set up your lines. This is a reminder to help you remember to always use a new stay•safe cap every time you disconnect.

stay•safe Organizer Clip

The stay•safe PIN connector on the patient line (blue clamp) fits into this holder. The organizer clip keeps it in place so you can connect yourself to it when your cycler instructs you to. Do not depress the PIN connector when placing it into the stay•safe Organizer clip during set up.

Tubing Channel

The tubing that leads to the cassette goes here. When you place the tubing in the Tubing Channel, it helps hold the line in place. Be sure to press the tubing in firmly to prevent it from popping out of the tubing channel.

Extension Cap Holder

The Extension Cap Holder holds a used cap in place as you remove it from the end of your extension line. Insert the used cap while connected, untwist it, and connect the line to a new stay•safe PIN connector.
The Heater Tray

Heater Tray/Scale

Bag Sensor
Heater Tray/Scale

The Heater Tray warms the dialysate solution-filled heater bag to a set temperature in about 20 minutes (6 L bag may take up to 30 minutes). The Heater Tray also operates as a scale, weighing the heater bag.

**Warning:** Make certain that the Heater Tray is free of obstructions and does not touch the top of your cycler’s cabinet (there should be an even gap all the way around the Heater Tray). Interference with the Heater Tray may result in inaccurate dialysate weighing and possible patient injury.

**Warning:** During the heating process, the Heater Tray can get as hot as 50 °C (122 °F). Do not come into contact with the Heater Tray as it may cause injury.

**Caution:** Do not lift your machine by the heater tray/scale. Doing this may damage the scale.

**Caution:** Do not place items other than solution bags on the Heater Tray.

**Caution:** Do not overload the scale. Weight greater than 15 kg (33 lbs.) or two solution bags (5000 mL or 6000 mL) may damage your machine.

Bag Sensor

The Bag Sensor measures the temperature of the dialysate solution heater bag.
Setting up Your Liberty Select Cycler

1. Lift by handles
2. Connect the power cord
3. Open the lid
4. Place the unit on a stable surface
**Setting up your Liberty Select Cycler**

Your Liberty Select Cycler is easy to set up. Follow the instructions below:

1. **Remove your Liberty Select Cycler from box**
   - Pull out the blue foam.
   - Pull dust cover aside.
   - Pick up your cycler by both handles on either side.
   - Carefully lift your cycler out of its shipping box. Set it on a stable, level surface such as a table with the screen facing you.
   - Keep all foam and packaging in case your cycler needs to be repacked.
   - Position your cycler near the edge of the table or cart so the tubing from the cassette will be able to hang down without kinking.
   - Make sure that the top of the cycler is no more than 12 inches higher or lower than your bed.

   **Warning:** Use proper lifting techniques: lift with your knees and not your back.

   **Caution:** Do not lift your machine by the heater tray/scale. Doing this may damage the scale.

   **Caution:** Make certain the vent on the back of your machine is free of obstructions.

2. **Connect stay•safe Organizer**

   Push the stay•safe Organizer onto the mounting tab below the Control Panel.

3. **Check heater tray on cycler cabinet**

   **Warning:** Make certain that the Heater Tray is free of obstructions and does not touch the top of your cycler’s cabinet (i.e. there is a level gap between the tray and the cabinet all the way around the cycler; see page 24 for a picture identifying the cabinet and Heater Tray). Interference with the Heater Tray may result in inaccurate dialysate weighing and possible patient injury.
4 Plug in machine

Plug the machine end of the power cord firmly into the power socket on the back of your machine. Plug the outlet end of the cord into a 120V three-prong power outlet. See page 50 for a picture of the back of your machine.

**Warning**: If you are unable to insert the plug in its socket and an outlet, contact a Fresenius Medical Care Technical Support Representative at 1-800-227-2572. Do not alter the power cord. Do not use the power cord if broken or damaged. Your machine must be plugged directly into the electrical outlet; do not use extension cords or power strips.
My Settings
Entering Your Prescription

1
Entering your prescription

Before you start your first treatment, you will need to enter the treatment settings that your doctor has prescribed. You do not need to do this again unless your prescription changes.

If your PD nurse has provided an IQdrive to you and the USB enabled option is set to YES (see “Options Settings,” on page 86), you may insert the IQdrive into the back of your machine at this time. See “Using the IQdrive,” on page 182 for more information about inserting the IQdrive.

The numbered items in the picture on the left match the numbered steps listed on this page. Do each step in order and pay close attention to Note, Caution, and Warning statements.

1 Turn power switch to ON

Locate the white power switch on the back of your machine and set it to the ON position. The “Ready” screen will appear on the Touch Screen shortly.
Entering Your Treatment Settings

Note: The values shown here are for example only. You must use the values prescribed by your doctor.
2 Touch **My Settings**

The first time you start your machine, the “Ready” screen will display default treatment values for an “Unknown” patient.

Before you start your first treatment, you must enter your own prescribed treatment settings if they have not been programmed with the IQdrive. Use the treatment settings from the “My Treatment settings” sheet on page 6 or follow your PD nurse’s instructions.

To begin entering your treatment settings, touch the **My Settings** screen-button. You will then go to the “My Settings” screen.

---

**Note:** If your name and treatment settings are already displayed on this screen, you do not need to enter them yourself. You may begin your treatment by turning to page 94.

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**Note:** If the ‘USB enabled’ option under “My Settings: Options” is set to YES and an IQdrive is correctly inserted into the IQdrive slot on your cycler, this screen might not be immediately displayed. See “Using the IQdrive,” on page 182 for more information.

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**Note:** If the USB enabled option is set to YES but an IQdrive is not inserted into the IQdrive slot on your cycler, your treatment data will be saved only to your cycler.

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**Note:** If you are using the IQdrive to program your treatment, you do not need to enter your therapy information. Turn to page 76 to enter your patient, options, and hardware settings.
Select Therapy Tab

My Settings

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therapy | patient | options | hardware

therapy type

CCPD | IPD

PD+ | TIDAL

- Treatment Based
- Cycle Based

3 4
3 Select program mode

The “My Settings” screen displays your available therapy options.

Touch the program mode your prescription is based upon: Cycle based or Treatment based. A large ‘X’ will indicate the selected program mode.

_Treatment Based_ means that you set your total treatment time. Your cycler will deliver your treatment in the specified amount of time. This mode is useful for people that need to finish treatment by a certain time in order to meet obligations such as going to work.

_Cycle Based_ means that your cycler will always dwell for the amount of time you set. Your total treatment time may vary depending on how you drain and fill or if you have any alarms.

Patients may experience fewer drain complication alarms using Treatment Based than Cycle Based therapy. If you are in Cycle Based therapy and experiencing drain complications you may want to discuss switching therapy types with your doctor or PD nurse.

4 Select therapy type

Touch the button matching your prescribed treatment. You will then move to the corresponding screen. Turn to the corresponding page listed below:

- **CCPD: Treatment Based**—Turn to page 56
- **CCPD: Cycle Based**—Turn to page 58
- **IPD: Treatment Based**—Turn to page 60
- **IPD: Cycle Based**—Turn to page 62
- **PD+: Treatment Based**—Turn to page 64
- **PD+: Cycle Based**—Turn to page 66
- **TIDAL: Treatment Based**—Turn to page 68
- **TIDAL: Cycle Based**—Turn to page 72

See page 132 for information on the different therapy types.

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*Warning*: The values and selections shown in pictures here are for example only. You must enter the values prescribed by your doctor; see “My Treatment Settings,” page 6.
CCPD: Treatment-Based Settings

My Settings

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Your CCPD treatment settings

cycles/pauses volumes times

<table>
<thead>
<tr>
<th>total volume</th>
<th>total sleep time</th>
</tr>
</thead>
<tbody>
<tr>
<td>8500 mL</td>
<td>7 hr 30 min</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>fill volume</th>
<th>dwell time</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000 mL</td>
<td>1 hr 29 min</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>last fill volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 mL</td>
</tr>
</tbody>
</table>

5 6 7 8

Note: The values shown here are for example only. You must use the values prescribed by your doctor.
Note: If your prescription is for cycle-based therapy, this screen will display different options. Turn to page 58 for cycle-based CCPD.

5 Select values

Touch the yellow button to select the value it displays:
- **Total volume**—The amount of dialysate used for your entire treatment
- **Fill volume**—The amount of every Fill (except last)
- **Last fill volume**—The amount of your Last Fill
- **Total sleep time**—Estimated sum of all Drain, Fill, and Dwell time during the treatment

Note: Light blue buttons cannot be selected. Your machine calculates the values in blue buttons based on the values you enter in the yellow buttons.

Note: If the ‘last bag option’ was set to YES, the last fill volume button will instead be last bag fill volume. If you need to set the last bag option, see “Options Settings,” on page 86.

6 Enter values

When you touch a yellow button, it will turn orange. Use the Up/Down Arrow (▼/▲) keys to set it to your prescribed value.

Repeat these steps to enter all of your prescribed values.

7 Press OK

Press the OK key to confirm and save your settings.

8 Touch Back

Touch the Back button to return to the “My Settings” main screen.

Skip to page 76 to enter your personal Patient Settings.
**CCPD: Cycle-Based Settings**

**Note**: The values shown here are for example only. You must use the values prescribed by your doctor.

<table>
<thead>
<tr>
<th># fills</th>
<th>fill volume</th>
<th>dwell time</th>
<th>fill time</th>
<th>last fill volume</th>
<th>drain time</th>
<th>total volume</th>
<th>total sleep time</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>2000 mL</td>
<td>1 hr 30 min</td>
<td>0 hr 15 min</td>
<td>500 mL</td>
<td>0 hr 20 min</td>
<td>8500 mL</td>
<td>8 hr 55 min</td>
</tr>
</tbody>
</table>
Note: If your prescription is for treatment-based therapy, this screen will display different options. Turn to page 56 for treatment-based CCPD.

5 Select values

Touch the yellow button to select the value it displays:
- # fills—Number of Fills during treatment
- Fill volume—The amount of every Fill (except last)
- Last fill volume—The amount of your Last Fill
- Dwell time—The amount of time the dialysate dwells in you
- Fill time—The amount of time available to fill you
- Drain time—The amount of time available to drain you after a Dwell

Note: Light blue buttons cannot be selected. Your machine calculates the values in blue buttons based on the values you enter in the yellow buttons.

Note: If the ‘last bag option’ was set to YES, the last fill volume button will instead be last bag fill volume. If you need to set the last bag option, see “Options Settings,” on page 86.

6 Enter values

When you touch a yellow button, it will turn orange. Use the Up/Down Arrow (▼/▲) keys to set it to your prescribed value.

Repeat these steps to enter all of your prescribed values.

7 Press OK

Press the OK key to confirm and save your settings.

8 Touch Back

Touch the Back button to return to the “My Settings” main screen.

Skip to page 76 to enter your personal Patient Settings.
IPD: Treatment-Based Settings

My Settings

6/18/2016 4:30 PM

Your IPD treatment settings

cycles/pauses volumes times

<table>
<thead>
<tr>
<th></th>
<th>total volume</th>
<th>fill volume</th>
<th>dwell time</th>
</tr>
</thead>
<tbody>
<tr>
<td># fills</td>
<td>5000 mL</td>
<td>2000 mL</td>
<td>1 hr 27 min</td>
</tr>
<tr>
<td># pauses</td>
<td>1000 mL</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: The values shown here are for example only. You must use the values prescribed by your doctor.
Note: If your prescription is for cycle-based therapy, this screen will display different options. Turn to page 62 for cycle-based IPD.

5 Select values

Touch the yellow button to select the value it displays:
- # pauses—Number of Pauses during treatment
- Total volume—The amount of dialysate used for your entire treatment
- Fill volume—The amount of every Fill
- Pause volume—How much you are to be filled with each Pause
- Total sleep time—Estimated sum of all Drain, Fill, and Dwell time during your treatment

Note: Light blue buttons cannot be selected. Your machine calculates the values in blue buttons based on the values you enter in the yellow buttons.

Note: If the ‘last bag option’ was set to YES, the last fill volume button will instead be last bag fill volume. If you need to set the last bag option, see “Options Settings,” on page 86.

6 Enter values

When you touch a yellow button, it will turn orange. Use the Up/Down Arrow (▼/▲) keys to set it to your prescribed value.

Repeat these steps to enter all of your prescribed values.

7 Press OK

Press the OK key to confirm and save your settings.

8 Touch Back

Touch the Back button to return to the “My Settings” main screen.

Skip to page 76 to enter your personal Patient Settings.
IPD: Cycle-Based Settings

Note: The values shown here are for example only. You must use the values prescribed by your doctor.

<table>
<thead>
<tr>
<th># fills</th>
<th>fill volume</th>
<th>dwell time</th>
<th># pauses</th>
<th>pause volume</th>
<th>fill time</th>
<th>drain time</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>1000 mL</td>
<td>1 hr 30 min</td>
<td>1</td>
<td>2000 mL</td>
<td>0 hr 15 min</td>
<td>0 hr 20 min</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>total volume</th>
<th>total sleep time</th>
</tr>
</thead>
<tbody>
<tr>
<td>9000 mL</td>
<td>8 hr 55 min</td>
</tr>
</tbody>
</table>
Note: If your prescription is for treatment-based therapy, this screen will display different options. Turn to page 60 for treatment-based IPD.

5 Select values

Touch the yellow button to select the value it displays:
- **# fills**—Number of Fills during treatment
- **# pauses**—Number of Pauses during treatment
- **Fill volume**—The amount of every Fill
- **Pause volume**—How much you are to be filled with each Pause
- **Dwell time**—The amount of time the dialysate dwells in you
- **Fill time**—The amount of time available to fill you
- **Drain time**—The amount of time available to drain you after a Dwell

Note: Light blue buttons cannot be selected. Your machine calculates the values in blue buttons based on the values you enter in the yellow buttons.

6 Enter values

When you touch a yellow button, it will turn orange. Use the Up/Down Arrow (▼/▲) keys to set it to your prescribed value.

Repeat these steps to enter all of your prescribed values.

7 Press OK

Press the OK key to confirm and save your settings.

8 Touch Back

Touch the Back button to return to the “My Settings” main screen.

Skip to page 76 to enter your personal Patient Settings.
PD+: Treatment-Based Settings

<table>
<thead>
<tr>
<th>Cycles/Pauses</th>
<th>Volumes</th>
<th>Times</th>
</tr>
</thead>
<tbody>
<tr>
<td># fills</td>
<td>fill volume</td>
<td>pause volume</td>
</tr>
<tr>
<td>6</td>
<td>2000 mL</td>
<td>1000 mL</td>
</tr>
<tr>
<td># pauses</td>
<td>dwell time</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1 hr 27 min</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** The values shown here are for example only. You must use the values prescribed by your doctor.
5 Select values

Touch the yellow button to select the value it displays:

- # pauses—Number of Pauses during treatment
- Total volume—The amount of dialysate used for your entire treatment
- Fill volume—The amount of every Fill (except last)
- Pause volume—How much you are to be filled with each Pause
- Last fill volume—The amount of your Last Fill
- Total sleep time—Estimated sum of all Drain, Fill, and Dwell time during your treatment

Note: Light blue buttons cannot be selected. Your machine calculates the values in blue buttons based on the values you enter in the yellow buttons.

Note: If the ‘last bag option’ was set to YES, the last fill volume button will instead be last bag fill volume. If you need to set the last bag option, see “Options Settings,” on page 86.

6 Enter values

When you touch a yellow button, it will turn orange. Use the Up/Down Arrow (▼/▲) keys to set it to your prescribed value.

Repeat these steps to enter all of your prescribed values.

7 Press OK

Press the OK key to confirm and save your settings.

8 Touch Back

Touch the Back button to return to the “My Settings” main screen.

Skip to page 76 to enter your personal Patient Settings.
PD+: Cycle-Based Settings

**My Settings**

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Your PD+ treatment settings

<table>
<thead>
<tr>
<th></th>
<th>Volumes</th>
<th>Times</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong># fills</strong></td>
<td>2000 mL</td>
<td>1 hr 0 min</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong># pauses</strong></td>
<td>1000 mL</td>
<td>0 hr 15 min</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>last fill volume</strong></td>
<td>500 mL</td>
<td>0 hr 20 min</td>
</tr>
<tr>
<td><strong>total volume</strong></td>
<td>9500 mL</td>
<td>7 hr 30 min</td>
</tr>
</tbody>
</table>

Note: The values shown here are for example only. You must use the values prescribed by your doctor.
Note: If your prescription is for treatment-based therapy, this screen will display different options. Turn to page 64 for treatment-based PD+.

5 Select values

Touch the yellow button to select the value it displays:
- **# fills**—Number of Fills during treatment
- **# pauses**—Number of Pauses during treatment
- **Fill volume**—The amount of every Fill (except last)
- **Pause volume**—How much you are to be filled with each Pause
- **Last fill volume**—The amount of your Last Fill
- **Dwell time**—The amount of time the dialysate dwells in you
- **Fill time**—The amount of time available to fill you
- **Drain time**—The amount of time available to drain you after a Dwell

Note: Light blue buttons cannot be selected. Your machine calculates the values in blue buttons based on the values you enter in the yellow buttons.

Note: If the ‘last bag option’ was set to YES, the **last fill volume** button will instead be **last bag fill volume**. If you need to set the last bag option, see “Options Settings,” on page 86.

6 Enter values

When you touch a yellow button, it will turn orange. Use the **Up/Down Arrow (▼/▲)** keys to set it to your prescribed value.

Repeat these steps to enter all of your prescribed values.

7 Press **OK**

Press the **OK** key to confirm and save your settings.

8 Touch **Back**

Touch the **Back** button to return to the “My Settings” main screen.

Skip to page 76 to enter your personal Patient Settings.
Tidal: Treatment-Based Settings

My Settings

Your Tidal treatment settings

cycles/pauses volumes times

<table>
<thead>
<tr>
<th># pauses</th>
<th>pause volume</th>
<th>first fill volume</th>
<th>tidal fill volume</th>
<th>dwell time</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>1000 mL</td>
<td>2000 mL</td>
<td>250 mL</td>
<td>0 hr 55 min</td>
</tr>
</tbody>
</table>

Note: The values shown here are for example only. You must use the values prescribed by your doctor.
5 Select values

Touch the yellow button to select the value it displays:

- **# pauses**—Number of Pauses during treatment
- **Total volume**—The amount of dialysate used for your entire treatment
- **Pause volume**—How much you are to be filled with each Pause
- **First fill volume**—The amount of your First Fill
- **Tidal fill volume**—How much you are to be filled each exchange
- **Total sleep time**—Estimated sum of all Drain, Fill, and Dwell time during your treatment

*Note: Light blue buttons cannot be selected. Your machine calculates the values in blue buttons based on the values you enter in the yellow buttons.*

6 Enter values

When you touch a yellow button, it will turn orange. Use the **Up/Down Arrow** (▼/▲) keys to set it to your prescribed value.

Repeat these steps to enter all of your prescribed values.

7 Press **OK**

Press the **OK** key to confirm and save your settings.

8 Touch **Next**

Touch the **Next** button to continue to the next screen to finish entering prescribed values.
Note: The values shown here are for example only. You must use the values prescribed by your doctor.
9 Select values

Touch the yellow button to select the value it displays:

- **Tidal drain volume**—How much you are to be drained each exchange
- **Last fill volume**—The amount of your Last Fill

**Warning:** Your Tidal Drain Volume must include your Tidal Fill Volume plus your expected ultrafiltration (UF), which is based on an average daily UF volume from the Tidal Dwell in order to prevent an overfill situation. Overfilling can cause serious injury or death. For more information on overfilling, see page 180.

**Note:** Light blue buttons cannot be selected. Your machine calculates the values in blue buttons based on the values you enter in the yellow buttons.

**Note:** If the ‘last bag option’ was set to YES, the last fill volume button will instead be last bag fill volume. If you need to set the last bag option, see “Options Settings,” on page 86.

10 Enter values

When you touch a yellow button, it will turn orange. Use the **Up/Down Arrow** (▼/▲) keys to set it to your prescribed value.

Repeat these steps to enter all of your prescribed values.

11 Press **OK**

Press the **OK** key to confirm and save your settings.

12 Touch **Back**

Touch the **Back** button to return to the previous screen, then touch the **Back** button again to reach the “My Settings” main screen.

Skip to page 76 to enter your personal Patient Settings.
Tidal: Cycle-Based Settings

Note: The values shown here are for example only. You must use the values prescribed by your doctor.
Note: If your prescription is for treatment-based therapy, this screen will display different options. Turn to page 68 for treatment-based Tidal.

5 Select values

Touch the yellow button to select the value it displays:
- **# pauses**—Number of Pauses during treatment
- **# fills**—Number of Fills during treatment
- **Pause volume**—How much you are to be filled with each Pause
- **First fill volume**—The amount of your First Fill
- **Tidal fill volume**—How much you are to be filled each exchange
- **Dwell time**—The amount of time the dialysate dwells in you
- **Fill time**—The amount of time available to fill you
- **Drain time**—The amount of time available to Drain you after a Dwell

Note: Light blue buttons cannot be selected. Your machine calculates the values in blue buttons based on the values you enter in the yellow buttons.

6 Enter values

When you touch a yellow button, it will turn orange. Use the Up/Down Arrow (▼/▲) keys to set it to your prescribed value.

Repeat these steps to enter all of your prescribed values.

7 Press OK

Press the OK key to confirm and save your settings.

8 Touch Next

Touch the Next button to continue to the next screen to finish entering prescribed values.
Note: The values shown here are for example only. You must use the values prescribed by your doctor.
9 Select values

Touch the yellow button to select the value it displays:

- **Tidal drain volume**—How much you are to be drained each exchange
- **Last fill volume**—The amount of your Last Fill

⚠️ **Warning:** Your Tidal Drain Volume must include your Tidal Fill Volume plus your expected ultrafiltration (UF), which is based on an average daily UF volume from the Tidal Dwell in order to prevent an overfill situation. Overfilling can cause serious injury or death. For more information on overfilling, see page 180.

>Note: Light blue buttons cannot be selected. Your machine calculates the values in blue buttons based on the values you enter in the yellow buttons.

>Note: If the ‘last bag option’ was set to YES, the last fill volume button will instead be last bag fill volume. If you need to set the last bag option, see “Options Settings,” on page 86.

10 Enter values

When you touch a yellow button, it will turn orange. Use the Up/Down Arrow (▼/▲) keys to set it to your prescribed value.

Repeat these steps to enter all of your prescribed values.

11 Press OK

Press the OK key to confirm and save your settings.

12 Touch Back

Touch the Back button to return to the previous screen, then touch the Back button again to reach the “My Settings” main screen.

Skip to page 76 to enter your personal Patient Settings.
Patient Settings Tab

Note: The values shown here are for example only. You must use the values prescribed by your doctor.
1 Touch **patient**

Touch the **patient** button to go to the “My Settings: Your First Name” screen.

2 Touch **your first name**

3 Press **OK**

Touch the **your first name** button and then press the **OK** key to enter your first name. You will automatically move to the keyboard screen.

**Note:** You only need to enter your personal patient information the first time you start up your machine. Your information will be saved for later treatments.
Entering Your First Name

![Keypad for entering your first name]

- Enter your first name using the on-screen keypad.
- Use the 4, 5, and 6 keys to select characters.
- Press the "Save" button to confirm your entry.
4 Enter your first name

Use the keypad displayed on the screen to enter your name by touching each corresponding letter. The name is displayed in the “Your First Name” box as you type.

**Note:** Delete the default name before entering your own name. To delete a letter, touch the **Del** button. To switch between upper and lowercase letters, touch the **Cap** button. To exit this screen without making any changes, touch the **Cancel** button and then press the **OK** key.

**Note:** If you need to enter a number or symbol, touch the ➯ button on the right side of the text box above the keypad. To return to the letters, touch the ⇢ button that appears on the left side of the text box above the number keypad.

5 Touch **Save**

When you have entered your first name, touch the **Save** button.

6 Press **OK**

Press the **OK** key to confirm and save your settings. You will return to the “My Settings: Patient Settings” screen.

Follow the previous example and touch the **your last name** and **your ID** buttons on the “My Settings: Patient Settings” screen. Your ID number is assigned by your PD nurse. See the “My Treatment Settings” sheet on page 2 for your ID number.
Entering Your Date of Birth

Note: The values shown here are for example only. You must use the values prescribed by your doctor.
7 Touch **date of birth**

Touch the **date of birth** button to enter your birth date. The button will turn orange and the first set of numbers will be active.

![Date of Birth Button]

---

**Note:** Depending on your Date Format setting, you may need to enter the day before the month; see the Date Format button in the “Hardware” section on page 90.

---

8 Enter your date of birth

Use the **Up/Down Arrow** (▼/▲) keys to change the first two numbers to the month of your birth date. Example:

- **date of birth**
  - 04/29/1959
  - use arrow keys to set

- **date of birth**
  - 05/29/1959

Press the **OK** key to confirm the selection and move on to the next set of numbers in your birthdate.

- **date of birth**
  - 05/29/1959
  - use arrow keys to set

- **date of birth**
  - 05/30/1959

Press the **OK** key to confirm the selection and move on to set your birth year as shown above.

---

9 Press **OK**

When you are finished entering your birth year, press the **OK** key to confirm and save your date of birth. Continue on to the next page to enter your weight.
Enter Your Weight

Note: The values shown here are for example only. You must use the values prescribed by your doctor.
10 Touch **weight**

Touch the weight button to enter your dry weight as prescribed by your doctor.

---

**Note:** The weight entered should be your estimated dry weight or target weight as prescribed by your doctor; see “My Treatment Settings,” page 6. Failure to enter your own prescribed treatment settings could result in complications that may be severe.

**Note:** Your weight may be entered in either pounds (lbs.) or kilograms (kg). See “Options Settings,” on page 86.

---

11 Enter your weight

Use the **Up/Down Arrow (▼/▲)** keys to enter your weight.

---

12 Press **OK**

When you are finished entering your weight, press the **OK** key to confirm and save your selection. Continue on to the next page to enter your gender.
Enter Your Gender

<table>
<thead>
<tr>
<th>Therapy</th>
<th>Patient</th>
<th>Options</th>
<th>Hardware</th>
</tr>
</thead>
</table>

My Settings

6/18/2016 4:05 PM

<table>
<thead>
<tr>
<th>your first name</th>
<th>Michael</th>
</tr>
</thead>
<tbody>
<tr>
<td>your last name</td>
<td>Smith</td>
</tr>
<tr>
<td>your ID</td>
<td>123456789</td>
</tr>
<tr>
<td>weight</td>
<td>69.5 kgs</td>
</tr>
<tr>
<td>date of birth</td>
<td>04/29/1959</td>
</tr>
<tr>
<td>gender</td>
<td>Male</td>
</tr>
</tbody>
</table>

Note: The values shown here are for example only. You must use the values prescribed by your doctor.
13 Touch **gender**

Touch the **gender** button to enter your gender.

14 Enter your gender

Use the **Up/Down Arrow (▼/▲)** keys to switch between Male and Female.

15 Press **OK**

When you are finished entering your gender, press the **OK** key to confirm and save your selection.

16 Touch **options**

Touch the **options** button to go to the “Options Settings” screen.
Options Settings Tab

My Settings

6/18/2016 4:42 PM

therapy  patient  options  hardware

<table>
<thead>
<tr>
<th>add diurnal UF</th>
<th>last bag option</th>
<th>drain exit %</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO</td>
<td>YES</td>
<td>70%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>language</th>
<th>SI units</th>
<th>personal data</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>USB enabled</th>
<th>add. drain</th>
<th>add. drain alert</th>
</tr>
</thead>
<tbody>
<tr>
<td>YES</td>
<td>YES</td>
<td>NO</td>
</tr>
</tbody>
</table>

Note: The values shown here are for example only. You must use the values prescribed by your doctor.
1 Select values

Touch the yellow button to select the value it displays:

- **Add diurnal UF**—Whether or not to include Drain 0 in the total ultrafiltration (UF) during the day. If you answer YES, the UF from Drain 0 is included in the UF total. This option defaults to NO.

- **Language**—English, Spanish, or French.

- **Last bag option**—If this option is selected, your cycler will fill you exclusively from the Last Bag line (green clamp) for your Last Fill. During the last dwell your cycler will empty the heater bag, fill it from the last bag, warm the fluid and deliver this specific solution for your last fill. This option defaults to NO.

  If you need more than 24,000 mL total fill volume and do not require a Last Bag Option, this Last Bag line (green clamp) may be used for additional solution.

- **SI Units**—If set to NO, your weight is displayed in lbs., your temperature is in °F, and your blood glucose is in mg/dL.

  If set to YES, your weight is in kgs, your temperature is in °C, and your blood glucose is in mmol/dL.

- **Personal data**—If this option is set to YES (recommended), your cycler will ask you to enter your updated health information after each treatment is complete.

- **USB enabled**—Whether or not the IQdrive is to be used to transfer and store therapy settings and treatment data. This option defaults to NO.

**Note:** The description of the options on this screen is continued on the next two pages.

2 Enter values

When you touch a yellow button, it will turn orange. Use the Up/Down Arrow (▼/▲) keys to set it to your prescribed value. Repeat these steps to enter all of your prescribed values.

3 Press **OK**

Press the OK key to confirm and save your settings.

4 Touch **hardware**

Touch the hardware button to go to the “Hardware Settings” screen.
### Options Settings Tab (continued)

![Options Settings Tab Diagram]

**My Settings**

<table>
<thead>
<tr>
<th>therapy</th>
<th>patient</th>
<th>options</th>
<th>hardware</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**My Treatment**

<table>
<thead>
<tr>
<th>My Settings</th>
<th>My Records</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Add Diurnal UF**

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
<th>Drain Exit %</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Yes</td>
<td>70%</td>
</tr>
</tbody>
</table>

**Language**

<table>
<thead>
<tr>
<th>English</th>
<th>SI Units</th>
<th>Personal Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN</td>
<td>Yes</td>
<td>YES</td>
</tr>
</tbody>
</table>

**USB Enabled**

<table>
<thead>
<tr>
<th>Yes</th>
<th>Add. Drain</th>
<th>Add. Drain Alert</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>NO</td>
</tr>
</tbody>
</table>

**Note:** The values shown here are for example only. You must use the values prescribed by your doctor.
1 Select values

Touch the yellow button to select the value it displays:

- **drain exit %**— If this option is set to 70%, the cycler will not allow you to complete a Drain until you have drained at least 70% of the drain volume. This is the default setting.
  If this option is set to 85%, the cycler will not allow you to complete a Drain until you have drained at least 85% of the drain volume. Follow your prescription and your PD nurse's instructions.

- **add. drain (additional drain)**—If this option is set to YES, you can perform an additional (planned) drain after completing the last drain. The cycler will prompt you to choose whether or not to do an additional drain (see Page 144 for more information).
  If this option is set to NO, the treatment will continue normally. This option defaults to NO. Follow your PD nurse’s instructions.

- **add. drain alert (additional drain alert)**—If this option is set to YES, your cycler will alert you with an alarm sound to choose whether or not to do an additional drain.
  If this option is set to NO, the cycler will prompt you to choose whether or not to do an additional drain, but without an alarm sound.

2 Enter values

When you touch a yellow button, it will turn orange.
Use the Up/Down Arrow (▼/▲) keys to set it to your prescribed value. Repeat these steps to enter all of your prescribed values.

3 Press **OK**

Press the OK key to confirm and save your settings.

4 Touch **hardware**

Touch the **hardware** button to go to the “Hardware Settings” screen.
**Hardware Settings Tab**

### My Settings

<table>
<thead>
<tr>
<th>My Treatment</th>
<th>My Settings</th>
<th>My Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>6/18/2016</td>
<td>4:45 PM</td>
<td></td>
</tr>
</tbody>
</table>

#### Therapy

Sound: [Image]

#### Patient

Date/Time: [Image]

#### Options

Display: [Image]

#### Hardware

<table>
<thead>
<tr>
<th>Sound</th>
<th>Date/Time</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>06/18/2016</td>
<td></td>
</tr>
</tbody>
</table>

- **Alarm Loudness**: 5
- **Key Loudness**: 2
- **Date Format**: mm/dd/yyyy
- **Date**: 06/18/2016
- **Screen Blanking**: OFF
- **Time Format**: AM/PM
- **Time**: 4:45 PM
- **Brightness**: 10
1 Select values

Touch the yellow button to select the value it displays:

- **Alarm loudness**—The volume level of the alarm (1 = soft, 20 = loud)
- **Key loudness**—How loud the key-press sound is (0 = off, 20 = loud)
- **Date Format**—Choose between listing the day before the month or the month before the day
- **Date**—Set today’s calendar date (see page 81 for example)
- **Time format**—Choose between 12-hour (AM/PM) or 24-hour time
- **Time**—Set the time
- **Screen blanking**—If this option is set to ON, your Touch Screen will go dark after ten minutes of inactivity. If screen blanking is set to OFF, your screen will always stay on. If you wake up and your screen is dark, you can touch anywhere on the screen and it will light up.
- **Brightness**—How bright the screen is (1 = dark, 10 = bright)

2 Enter values

When you touch a yellow button, it will turn orange. Use the Up/Down Arrow (▼/▲) keys to set it to the desired value. Repeat these steps to enter all of your values.

3 Press **OK**

Press the **OK** key to confirm and save your settings.

4 Touch **My Treatment**

At this point, you should have entered your entire prescription. When you are ready to begin your treatment, touch the **My Treatment** screen-button.

**Warning:** Do not begin your treatment if your settings are incorrect. Improper treatment settings could result in complications that may be severe.

If you are not yet ready to start your treatment, you may leave your machine on this screen. The screen will blank-out after ten minutes if screen blanking is set to YES. Touch anywhere on the screen to restore the display, when desired.
This Page is Intentionally Blank
My Treatment
Pre-Treatment Checklist
Getting Started

Before you start your treatment, you should check the following on your cycler:

- Check that the power cord is plugged into a grounded, three-prong electrical outlet, and the power switch on the back of your machine is in the **ON** ( | ) position.

- Check that the heater tray is free from obstructions and is not touching the top of your cycler’s cabinet (as described on page 24).

- Check that the gap between the heater tray and the cycler cabinet is equal on all sides.

- Check that your machine has been recently cleaned and is ready for treatment (see page 236 for more information).

---

**Warning:** If any of the conditions listed above have not been met, you must correct them before continuing with your treatment preparation. Failure to do so could result in complications that may be severe.

**Note:** Check that, if you are using an IQdrive, the IQdrive is inserted properly into the IQdrive slot on the back of your machine (see page 182).

**Note:** Your Liberty Select Cycler automatically runs a self-test during startup and alerts you if a problem exists. No manual testing of your cycler is required after installation.
1 Touch "My Treatment"

You may reach the “Treatment” screens from any other screen. Touch the My Treatment screen-button to begin your treatment setup procedures.

If your cycler is ON but the screen has blanked-out and is dark, you may touch anywhere on the Touch Screen to restore the display.

---

**Warning:** Do not begin your treatment until your entire prescription has been entered.

**Warning:** Check for proper functioning of your machine before beginning your treatment.

**Note:** This User’s Guide is only a guide for the Liberty Select Cycler screens. Follow your exact screen order on the machine and use these pictures only as a reference.

**Note:** If your IQdrive therapy settings have changed since your last treatment, you will need to review those settings before continuing with your treatment. See “Using the IQdrive,” on page 182.

*Do not remove the IQdrive during your treatment.*
Note: The values shown here are for example only. You must use the values prescribed by your doctor.
2 Verify treatment values

The treatment settings displayed on the “Ready” screen must match your prescription (see page 6). If you still need to enter the correct values, turn to page 52.

3 Press OK

If the treatment values are listed correctly, press the OK key to continue. Your cycler will take a moment to process and you will move on to the next screen.

Warning: Your doctor will prescribe your entire treatment. Using incorrect values could result in complications that may be severe. Do not use example values shown in machine pictures.
Preparing

4 Gather Supplies
5

Gather supplies, mask, and wash hands.
Insert cassette
Insert patient connector into stay safe Organizer
4 Gather supplies, mask, and wash hands

Before starting your treatment, you will need to get the following ready:

- **Supplies**—Typical supplies are:
  - Mask
  - Solution bags
  - Liberty Cycler set
  - stay•safe caps
  - Drain line or drain bags
  - Hand sanitizer

- **Mask**—Put on your mask. Everyone else in the room must also wear a mask.

- **Wash hands**—Wash your hands as instructed by your PD nurse.

**Warning:** You must use aseptic technique as directed by your PD nurse to prevent infection.

---

5 Inspect cassette

**Warning:** A new, sterile cassette and drain line must be used for every treatment. Check that the cassette and tubing are free from kinks or damage, and that it is not past its expiration date. Look for scratches, loose tubing or small hole in cassette membrane. Damaged tubing or cassettes can lead to leaks, contamination, and infection. **Save your tubing set** for pick up and immediately call Customer Service at 1-800-323-5188. You will be contacted about having the used tubing set picked up. **DO NOT USE THIS SET!** Please notify your PD nurse about this event.

**Caution:** The cassette door is pressurized. Do not attempt to reopen the cassette door until your machine instructs you to. Do not touch the door sensor when loading the cassette, see page 34.
Set-Up

step 1

Gather supplies, mask, and wash hands.
Insert cassette

Insert patient connector into stay.safe Organizer

6 7

stay.safe PIN connector 1

stay.safe PIN connector 2

stay.safe Organizer
6 Insert cassette

**Warning**: A damaged cassette can cause peritoneal dialysis (PD) solution to leak into the cycler and is a potential risk for contamination. Notify your PD nurse if you find a fluid leak.

To insert the cassette:

- Make sure that the Liberty Select cycler is positioned near the front of the table or cart so that all lines can hang freely from the cassette.

- Check the package label on the Liberty cycler set to ensure it is not past its expiration date, and then remove the cycler set from its packaging. Inspect the cycler set to make sure it is free from kinks or damage. Look for scratches, loose tubing, or small holes in the cassette film.

**Caution**: Use caution when touching the cassette film to prevent damage.

**Warning**: DO NOT USE the set if it is damaged. Put the damaged set aside and immediately call Customer Service at 800-323-5188 to arrange a pick-up to return the damaged set.

**Caution**: DO NOT insert the cassette until the cycler prompts you with the on-screen instructions. If you attempt to insert it at any other time, the cassette will not snap properly into place and the door will not close.

- Firmly push the door latch to open the cassette door.

**Caution**: Avoid touching any of the sensors inside the cassette door, as this could cause damage to the pump module.

**Caution**: The cassette door is pressurized. Do not attempt to open the cassette door until your machine instructs you to do so.
**Warning:** Check that the pump module is clean and free from obstructions before inserting the cassette. Keep fingers clear of moving parts.

- Hold the cassette with the plastic domes facing outward (towards you).

- To insert the cassette, first slide the cassette up and under the metal guide pins at the top of both sides of the pump module.

- Next, place your fingers on the cassette and push the cassette into place. Make sure the cassette has snapped into place into the cassette catch at the bottom of the pump module. See “The Pump Module” on page 34 for a drawing of the pump plate.

**Note:** The cycler operates the same with or without an alignment bar. The same cassette insertion technique should be used for cyclers with or without an alignment bar.

- If your cycler has an alignment bar, make sure the tubing is hanging down over the alignment bar and in front of the cycler.

- If your cycler does not have an alignment bar, make sure the tubing is hanging freely down in front of the cycler.

- Next, look to make sure the cassette has been inserted properly:
  - The cassette should be under both guide pins, snapped in place, and resting on the cassette catch.
  - If using a cycler cart, make sure the tubing is hanging down freely behind the handle.
  - If using a nightstand, make sure the tubing is hanging down freely over the front of the nightstand.
7 Insert stay•safe PIN connector

Next, insert your stay•safe PIN connector into the stay•safe organizer clip below the control panel. Insert the tubing into the Tubing Channel on the right.

Finally, gently close the cassette door. Ensure the cassette door clicks into place to lock it. Your cycler will pressurize the cassette door and then display the next setup screen.

Caution: Do NOT force the door closed. If you are having trouble closing the door, open the cassette door and make sure the cassette has been inserted correctly.
Connect Solution Lines

Set-Up

6/18/2016 4:49 PM

step 2

Connect solution lines

Place bag on heater tray

Connect drain line.

Press next to continue

8 9 10

Heater Bag Placement
Line up solution bag at corners. Do not extend bag over edge.
8 Connect solution lines

Check your solution bags for S.C.A.L.E. (solution, clarity, amount, leaks and expiration date). Place your solution bags on a flat surface with the connection ports facing you. When directed, using aseptic technique, connect the solution lines as follows:

- Line with red clamp to the heater bag
- Lines with white clamp to the solution bags
- Line with green clamp to the last bag of your treatment, if prescribed.

**Caution:** If you are using the Liberty cart, be sure to properly balance the solution bags by hanging them on both sides of the cart. Unbalanced bags on the cart may cause it to tip over and damage your machine. The maximum load limit on the Liberty cart in addition to the cycler is 60 lbs. (2.2 lbs. per Liter of solution). Do not overload the Liberty cart. Make sure that you set the cart brakes to OFF when moving the cart and ON when the cart is stationary.

9 Place bag on heater tray

Use a bag with a minimum of 2000 mL on the heater tray that has an additional 1000mL for flushing and priming the system. The red clamp heater line should already be connected. Once your treatment starts, you must not remove the heater bag. Nothing other than the heater bag may be placed on the heater tray.

**Warning:** You must properly connect your solution bags as prescribed.

**Warning:** Do not use external heating sources not authorized by Fresenius Medical Care to warm your solution bags. Contact your PD nurse for more information.

**Warning:** Make sure that the solution lines are free from kinks.

**Warning:** Do not allow the heater bag to hang off the heater tray and touch the cabinet.

**Warning:** Do not connect any bag when it is hanging on the cart or lying on the floor.
Note: The bag you use for your heater bag must be at least 1000 mL more than your First Fill volume.

10 Connect drain lines

Connect the cassette’s line with yellow clamp to a drain line or drain bag set. Do not close the yellow clamp.

Note: If you connect directly to a drain line instead of a drain bag set, an air gap at the end of the line must be present to allow proper drainage. Do not submerge the end of the drain line in liquid such as a toilet bowl. Always remove the cap at the end of the drain line.
This Page is Intentionally Blank
Set-Up

6/18/2016 4:49 PM

Connect solution lines
Place bag on heater tray
Connect drain line.

Press next to continue

11
11 Touch Next

All the prescribed lines should be connected at this point. Touch the Next button to continue; your cycler will now weigh your heater bag.

---

**Warning:** Do not disturb the bag as it is being weighed.
Break Cones and Clamp Unused Lines

12 Initiate Solution Flow

13

14
12 Initiate solution flow

Obtain the Package
Insert that is included in each case of solution bags and follow the specific instructions under "Directions for Use" to initiate solution flow. Make sure the cone/frangible is broken completely. A white guide should be visible. You may use Handi-Tool to assist you with breaking the cone.

13 Clamp (close) unused lines

Clamp any line that is not connected to a solution bag. Keep the heater bag line (red clamp), drain line (yellow clamp), and patient line (blue clamp) open throughout setup and treatment.

14 Touch Next

Touch the Next button to continue. Your cycler will now test to see which lines are connected.
Check Bags

Note: This picture is an example only. You must follow your prescription and the instructions of your PD nurse.
15 Verify bag connections

During the bag detection test, your machine automatically detects which lines are connected to solution bags and which are not connected to the solution bags. After the bag detection test, your cycler displays which lines are connected and which are unconnected to solution bags.

Make sure that your cycler has properly detected the bag connections and that the clamps are open for connected bags. The clamps should be closed for unconnected or unused lines. If the bag detection test results are wrong, check the connections, whether the cones are completely broken, and whether the correct clamps are open or closed. Touch the Back button to run the bag detection test again.

Note: You must have all of your solution bags connected at this point. After the bag connection verification, you cannot connect another solution bag for your current treatment.

16 Touch Next

When each of the connected bags is correctly displayed, touch the Next button. Your machine will begin flushing the lines.
Performing Flush

Flushing

6/18/2016  4:53 PM

Time remaining
1 min 30 sec

Time set
2 min 0 sec

Please wait
Machine Flushing

Your machine will now begin a tubing flush. The screen displays a timer to count down the flushing time.

The next screen will appear when the flushing is complete.

Note: If you need to stop the flushing process, press the STOP key. The pump will stop and the “Flushing Stopped” screen will be displayed. Flushing will resume when you press the OK key.
Priming

Ensure Blue Line Clamp is open

Press next to continue

6/18/2016 4:55 PM

My Treatment My Settings My Records

step 5

17

18

Next
17 Ensure Patient Line (blue clamp) is open

Make sure the patient line (blue clamp) is open to prepare the patient line for priming.

18 Touch Next

Touch the Next button to begin the priming process.

Note: During the prime phase, the patient line (blue clamp) must be lower than the heater bag.
Performing Prime

Time remaining
1 min 30 sec

Time set
2 min 0 sec

Please wait
Performing Prime

Your machine will now prime the lines. The screen displays a timer to count down the Priming time.

The next screen will appear when the priming is complete.
Prime Complete

6/18/2016 4:56 PM

step 6

Close patient line clamp or press back to prime again

Press next to continue

19 20
19 Close patient line clamp or press back to prime again

If you see air in the lines and need to prime them again, touch the **Back** button. Your machine will re-prime the lines.

**Note:** If you are using tubing set model P/N 050-87216 with a twenty foot long patient line, you may need to press the **Back** button again to ensure the line is fully primed.

If your lines have been primed and there is no air in them, close the patient line (blue clamp).

20 Touch **Next**

Make sure your patient line (blue clamp) is clamped then touch the **Next** button to continue to the next screen. There you will enter your daytime manual exchange volume, if you did one. A manual exchange is when you connect your catheter extension set to a bag of solution and perform an exchange without using your Liberty Select Cycler.
Entering a Daytime Exchange

Note: The values shown here are for example only. You must use the values prescribed by your doctor.
21 Select daytime manual exchange information

If you did not perform a manual exchange Fill since you last turned off your cycler, you may leave this button set to NO. Continue to step 22 below.

If you did perform a manual exchange Fill since you last turned off your cycler, you must set the daytime exch. button to YES.

**Warning:** You must enter whether or not you performed any manual exchanges since you last turned off your cycler. If you performed a manual exchange, you must then also enter the fill volume. If you do not program this information into your Liberty Select Cycler at this time, your cycler will not know that you have additional fluid in your abdomen. Do NOT bypass Drain 0. Your Liberty Select Cycler will switch to Fill 1 when you are finished draining.

To set the daytime exch. button to YES, touch the button and it will turn orange. Use the Up/Down Arrow (▼/▲) keys to change it from NO to YES. Press the OK key to save the change.

22 Enter volume if you had a manual exchange

After setting the daytime exch. button to YES, the manual fill volume button will change from gray to yellow. You may now edit that button. Touch the manual fill volume button, it will turn orange. Use the Up/Down Arrow (▼/▲) keys to scroll up or down to the fill volume you have left in your abdomen from your last manual exchange Fill.

23 Press OK

Press the OK key to confirm and save your settings.

24 Touch Next

Touch the Next button to continue to the next screen.
Confirming Your Daytime Exchange

daytime exch. = YES
manual fill volume = 1000 mL

Press next to confirm
or
back to re-enter manual exch. info
25 Double-check your settings

Your cycler will display the daytime exchange settings you just entered on the previous screen.

If this screen does not match what you entered, touch the Back button. Then re-enter the correct settings (see the previous page).

26 Touch Next

If your daytime exchange settings are listed correctly, touch the Next button to continue to the next screen. There you will see instructions on how to connect to your machine.
Connecting Yourself

Ready for Treatment

6/18/2016  4:59 PM

step 7

Use aseptic technique to connect blue line to yourself
Open the blue line clamp and your catheter clamp

Press next to continue

27  28  29

stay-safe Organizer
27 Use aseptic technique to connect yourself

**Warning**: You must use aseptic technique to prevent infection. Keep your mask on until you have finished connecting.

**Warning**: Use a new, sterile connector each time you connect.

To connect to your cycler:
- Wash your hands or use hand sanitizer as directed by your PD nurse
- Insert your catheter extension cap into the Extension Cap Holder on your stay•safe Organizer to remove the cap
- Remove the clear stay•safe cap from the stay•safe PIN connector
- Connect your catheter extension line to the stay•safe PIN connector on the patient line (blue clamp)

28 Open the patient line (blue clamp) and your catheter extension set clamp

29 Touch Next

Press the **Next** button to begin your prescribed exchanges.

**Warning**: If you turn off your cycler after you have filled, when you restart your cycler you MUST NOT bypass Drain 0. It could result in an overfill.

**Warning**: If you do one or more manual daytime exchanges that are not programmed into the Liberty Select Cycler, your cycler will not know that you have additional fluid in your abdomen. Do NOT bypass Drain 0. Your Liberty Select Cycler will switch to Fill 1 when you are finished draining.

**Note**: Your actual treatment time begins at this point, the beginning of Drain 0.

For information on bypassing an exchange, see page 180.
This Page is Intentionally Blank
Exchanges
Exchanges

Drain

Fill

Dwell/Pause
IPD – Intermittent Peritoneal Dialysis

IPD is an *Intermittent Therapy*, meaning it is interrupted. With IPD, your cycler does your Exchanges during the night. Your machine Drains you in the morning so you do not have dialysate in your peritoneal cavity during the day.

Tidal Peritoneal Dialysis

Depending on the program, Tidal PD can be either Intermittent or Continuous. With Tidal PD, your cycler does your Exchanges during the night. However, your machine does not always fully drain you during each Exchange. Only a portion is drained and filled with each Exchange. Depending on your prescription, you may end the treatment with a Fill or Drain.

CCPD – Continuous Cycling Peritoneal Dialysis

CCPD is a *Continuous Therapy*. It is the most common therapy prescribed. With CCPD, you have dialysate in your peritoneal cavity at all times. Two or more dialysate Exchanges are done through the night and one long Exchange is done during the day. Each morning your cycler will fill you for the day. When you reconnect to your machine again at night, you must first drain the dialysate that dwelled in you since the end of your last treatment.

PD+ – Peritoneal Dialysis Plus™

PD Plus™ is a *Continuous Therapy* like CCPD, but it also includes Drains and Pause-type Dwells during the day to offer more waste removal.

Your cycler’s screen order

The number of times that you drain, fill, and dwell (or pause) depends on your prescribed therapy. The following screens are shown only to explain the different features. Follow your own machine’s setup. Your cycler will automatically take you through your prescription.
Exchange: Drain 0

Note: The values shown here are for example only. You must use the values prescribed by your doctor.
Drain 0 is the Drain that starts your treatment. Drain 0 does not count toward your total ultrafiltration (UF) for the entire treatment unless the ‘Add diurnal UF’ option was set to YES (see page 86).

**Warning:** Do not bypass Drain 0 unless you have discussed your situation with your PD nurse or doctor. For information on bypassing an exchange, see page 176.

**All Drain screens**

The “Drain” screen displays a graph to track your Drain progress. As your cycler drains you, the fluid level in the cup will rise.

You will continue to drain until the fluid level rises to the black line. This black line is your expected drain volume. This is based on your prescription.

When your cycler drains more fluid than you filled with, this is called ultrafiltration. The graph will show the fluid level rise past the black line. Any ultrafiltration is shown in orange above the black line on the cup.

**Note:** You may drain more quickly sitting or standing up than lying down. There is more pressure on your abdomen in a sitting or standing position.

**Note:** If you need to stop the draining process, press the STOP key. The pump will stop and the “Draining Stopped” screen will be displayed. Draining will resume when you press the OK key.

When the Drain is complete, your cycler will either begin to fill you with fresh dialysate or end your treatment. If you are ending your exchanges with a Drain and this is the last Drain of your treatment, then turn to “Ending Treatment” on page 148. For Fills, see the Fill explanation on the next page.
Note: The values shown here are for example only. You must use the values prescribed by your doctor.
Fill 1

Fill 1 is the First Fill of your treatment. Your cycler will always go to Fill 1 after Drain 0.

All Fill screens

The “Fill” screen displays a graph to track your Fill progress. As your cycler fills you, the fluid level in the cup will rise. The black line indicates the expected fill volume level.

You will continue to fill until the graph rises to the black line. This black line is your set fill volume. This is based on your prescription.

⚠️ Warning: If you feel a large, painful build-up of pressure during your fill, do not finish your fill cycle. You must press the STOP key to stop your cycler immediately. You may perform a STAT drain if you have been trained. Always call your PD nurse or doctor if you have these symptoms. Overfilling can cause serious injury or death. For more information on overfilling, see page 180.

⚠️ Note: You may fill more quickly lying down than sitting or standing up. There is less pressure on your abdomen in a lying down position.

⚠️ Note: If you need to stop the Fill process, press the STOP key. The pump will stop and the “Filling Stopped” screen will be displayed. Filling will resume when you press the OK key.

⚠️ Note: Your cycler will delay your first fill if the heater bag solution temperature has not reached 33°C (91.4°F). When the temperature reaches at least 25°C (77°F), your cycler will display the message “Solution is warming. Press OK key to start fill...” By pressing the OK key, the fill will begin with cool solution, which could feel uncomfortable. If this happens, do not press the OK key. The heater bag will warm before automatically starting the fill.

When the Fill is complete, your cycler will go to Dwell (page 142) or Pause (page 138) depending on your therapy.

If you programmed a Last Fill, and this is the last Fill of your treatment, go to “Ending Treatment” on page 148.
Exchange: Pause

Pause 1 of 5

6/18/2016 12:54 PM

Pause time
1 hr 45 min

- Push in the PIN
- Close blue and catheter clamps
- Insert patient connector into stay.safe Organizer
- Aseptically disconnect yourself

Press next to continue

1 2

Twist ¼ turn and Push in PIN

stay-safe PIN connector

Close Clamp

Disconnect
1 Pause: Disconnect from cycler

A Pause is a special type of Dwell. During a Pause you still dwell with the solution in you, but you may choose to disconnect from your cycler. It is also different from other Dwells because it is not timed, meaning you may pause for as long as you need. The number of Pauses during your treatment depends on your prescription; see “My Treatment Settings” on page 6.

When your cycler is on the “Paused” screen, you may disconnect from your machine.

**Warning:** You must use aseptic technique as directed by your PD nurse to prevent infection.

**Warning:** Use a new, sterile stay•safe PIN connector and cap every time you disconnect from your cycler. Be sure to insert the new, sterile cap into the stay•safe New Cap Holder before you disconnect.

To disconnect from your cycler:
- Push in the PIN—twist the PIN ¼ turn and then push it in to make sure that a new PIN is inserted in the line
- Close patient line (blue clamp)
- Close catheter extension set clamp
- Carefully disconnect the patient line from your extension set and cap off with a new sterile stay•safe cap
- Check that your catheter/extension set is firmly anchored in place

Your cycler will display how long you pause under ‘Pause time’.

2 Touch Next

You may now leave your machine. Touch the Next button when you are ready to reconnect to your cycler.

**Note:** The Next button is not available until your cycler has finished filling up the heater bag.
Exchange: Pause Re-Start

Use aseptic technique to connect blue line to yourself

Open the blue line clamp and your catheter clamp

Press next to continue

stay•safe PIN connector 1

Twist ¼ turn and push in PIN

stay•safe PIN connector 2

stay•safe Organizer
3 Reconnect to your cycler

Reconnect to your machine when you are ready to resume your treatment. Be sure to remove your used stay•safe PIN connector from its holder before beginning.

Warning: You must use aseptic technique as directed by your PD nurse to prevent infection. Wear a mask and wash your hands before reconnecting.

To reconnect to your cycler:

- Put on your mask
- Wash your hands
- Unwrap the next stay•safe PIN connector.
- Insert the next stay•safe PIN connector on your patient line into the stay•safe organizer clip below the control panel
- Insert the tubing into the Tubing Channel on the right
- Remove the clear stay•safe cap from the stay•safe PIN connector
- Connect your catheter extension line to the stay•safe PIN connector on the patient line (blue clamp)
- Open patient line (blue clamp)
- Open catheter extension clamp

4 Touch Next

When you touch the Next button, your machine will begin the Drain process. Turn to page 134 for more information on the Drain process.
Exchange: Dwell

Dwell 1 of 5

6/18/2016  5:05 PM

Time remaining
1 hr 45 min

Time set
2 hr 00 min

Note: The values shown here are for example only. You must use the values prescribed by your doctor.
All Dwell screens

During a Dwell, you stay connected to your machine while your fluid dwells inside you. Most Dwells take place at night when you are sleeping.

The “Dwell” screen displays a timer to count down your Dwell time. During Dwell stage, your machine will refill the heater bag. The heater tray will then warm the solution for your next Fill.

Warning: During the heating process, the Heater Tray can get as hot as 50 °C (122 °F). Do not come into contact with the Heater Tray as it may cause injury.

Note: If you need to stop the dwell process, press the STOP key. The Dwell timer will stop counting down and the “Dwell Stopped” screen will be displayed. The Dwell will resume when you press the OK key.

Note: The cycler cannot bypass an exchange while the heater bag is filling and it does not have enough solution for the next fill.

When your Dwell time is complete, your cycler will drain you again. See page 134 for more information on the Drain process.
Additional Drain Option

Do you want to do an additional drain?

YES  NO

Press STOP to mute
1 Press **STOP**

If the **add. drain** option is set to **YES**, your cycler will display the “Select additional drain option” screen after the last drain is complete.

If **add. drain alert** option is set to **YES**, your cycler will alert you with an alarm sound. Press the **STOP** key to silence the audible alarm.

2 Touch **YES** or **NO**

**YES option:**

To perform an additional drain, touch the **YES** button.

The additional drain will immediately begin draining your abdomen.

**Note:** An additional drain works the same way as a regular Drain. You may stop it or bypass it as needed.

**Note:** An additional drain is a planned drain. STAT drain is an unplanned drain.

After your additional drain is complete, your cycler will begin your Last Fill, if programmed, or it will end the treatment. Your treatment data will show that you performed an additional drain (see page 166 for more information).

**NO option:**

If you do not want to perform an additional drain, touch the **NO** button. Your cycler will begin your Last Fill, if programmed, or it will end the treatment.
Ending Treatment
Ending Your Treatment

- Push in the PIN
- Close blue and catheter clamps
- Insert patient connector into stay.safe Organizer
- Aseptically disconnect yourself

Press next to continue

1. Twist ¼ turn and Push in PIN
2. Disconnect
3. Close Clamp

STAT drain

Next
1 Touch **STAT drain**

If you choose to perform a STAT drain before starting to disconnect yourself, touch the STAT drain button. Consult your PD nurse if you are feeling full. See page 174 for more information.

---

**Note:** An additional drain is a planned drain. A STAT drain is an unplanned drain.

---

2 **Disconnect yourself**

After your last Drain or Fill of your treatment, your treatment will be complete for the day. When your cycler reaches this screen, you may disconnect.

---

**Warning:** You must use aseptic technique as directed by your PD nurse to prevent infection.

**Warning:** Use a new, sterile stay•safe PIN connector and cap *every* time you disconnect from your cycler. Be sure to insert the new, sterile cap into the stay•safe New Cap Holder before you disconnect.

To disconnect from your cycler:
- Push in the PIN—twist the PIN ¼ turn and then push it in to make sure that a new PIN is inserted in the line
- Close patient line (blue clamp)
- Close catheter extension set clamp
- Carefully disconnect the patient line from your extension set and cap off with a new sterile stay•safe cap
- Check that your catheter/extension set is firmly anchored in place

---

3 Touch **Next**

Touch the **Next** button to continue. If you set the ‘personal data’ option to YES (see “Options Settings” on page 86), your cycler will next go to the “Personal Data” screen. If the ‘personal data’ option is not set, turn to page 156.
**Entering Your Personal Health Data**

<table>
<thead>
<tr>
<th>Patient Data</th>
<th>My Treatment</th>
<th>My Settings</th>
<th>My Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>6/18/2016 5:07 PM</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Your personal health data

Enter your health data below

<table>
<thead>
<tr>
<th>dextrose 1.5%</th>
<th>last bag type</th>
<th>pulse</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 mL</td>
<td>1.5</td>
<td>60</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>dextrose 2.5%</th>
<th>blood glucose</th>
<th>blood pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 mL</td>
<td>20 mg/dL</td>
<td>120 / 70</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>dextrose 4.25%</th>
<th>weight</th>
<th>temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 mL</td>
<td>105 lbs</td>
<td>98.2 °F</td>
</tr>
</tbody>
</table>

Press next to continue

**Note**: The values shown here are for example only. You must use the values prescribed by your doctor.
Note: This screen will appear only if you set the ‘personal data’ option to YES. See “Options Settings,” on page 86.

You must enter your personal data now—you cannot return to this screen later.

4 Select values

Here you need to update your personal health data. Touch the yellow button to select the value it displays:

- **Dextrose 1.5%**—The volume of dextrose 1.5% used during treatment
- **Dextrose 2.5%**—The volume of dextrose 2.5% used during treatment
- **Dextrose 4.25%**—The volume of dextrose 4.25% used during treatment
- **Last Bag Type**—Dextrose type of the last bag used (1.5, 2.5, or 4.25)
- **Blood glucose**—Your blood glucose level
- **Patient Weight**—Your weight after your treatment
- **Pulse**—Your pulse in beats per minute
- **Blood pressure**—Measure your blood pressure as directed by your PD nurse. Touch the blood pressure button to select it, then use the Up/Down Arrow (▼/▲) keys to change the first number (systolic). Press the OK key to confirm the selection. Use the Up/Down Arrow (▼/▲) keys to set the next number (diastolic) and press the OK key again to confirm the selection.
- **Temperature**—Measure and enter your temperature as directed by your PD nurse

Note: These values must be properly measured to determine the effectiveness of your treatment.

5 Enter values

When you touch a yellow button, it will turn orange. Use the Up/Down Arrow (▼/▲) keys to set it to your measured values. Repeat these steps to enter all of your information.

When you are finished entering all your data, press the OK key to confirm the selections.

6 Touch Next

After pressing the OK key, touch the Next button to continue. If you press Next without entering your Personal Data, no information will be recorded for this date.
Your Treatment Summary

Note: The values shown here are for example only. You must use the values prescribed by your doctor.
7 Review Treatment Summary

This screen displays a summary of your treatment. Your total time, UF, and volume are listed. More specific information is stored in the “Details” screen, available through the Details button on the right side of the screen or within the My Records screen-button along the top.

Note: You may touch the Details button for more information about your latest treatment. The “Details” screen displays information about exchanges, times and volumes. See the next page for more information about this screen.

Note: Your cycler is designed to complete your treatment on time. If, within that time, the dwell was longer than expected (due to an alarm), the Dwell Time button will display the word ‘gained’ before the time. If the dwell was shorter than expected (due to a drain or fill bypass), the Dwell Time button will display the word ‘lost’ before the time.

8 Touch Next

Touch the Next button when you are finished reviewing your treatment. Turn to page 156 to continue.
### Treatment Summary

**6/18/2016  5:09 PM**

<table>
<thead>
<tr>
<th>cycle #</th>
<th>fill vol</th>
<th>fill time</th>
<th>dwell time</th>
<th>drain vol</th>
<th>drain time</th>
<th>UF vol</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2000</td>
<td>15B</td>
<td>60P</td>
<td>1900</td>
<td>20</td>
<td>-100</td>
</tr>
<tr>
<td>1</td>
<td>2000</td>
<td>13</td>
<td>120</td>
<td>2100</td>
<td>18</td>
<td>100</td>
</tr>
<tr>
<td>2</td>
<td>2000</td>
<td>15</td>
<td>90S</td>
<td>2100</td>
<td>21B</td>
<td>100</td>
</tr>
<tr>
<td>3</td>
<td>2000</td>
<td>16F</td>
<td>120</td>
<td>2000</td>
<td>20</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>2000</td>
<td>14</td>
<td></td>
<td>2000</td>
<td>20</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>2000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**all volumes in ml**

**all times in min**

**net UF: 100**

---

**Note:** The values shown here are for example only. You must use the values prescribed by your doctor.
9 Review Treatment Details

This screen displays the cycles of your last treatment. Your information is listed by cycle number and includes:
- Fill volume
- Fill time
- Dwell time
- Drain volume
- Drain time
- Ultrafiltration volume

Note: If the Drain, Fill, Dwell, or Pause times were interrupted at all, the following letters will appear next to the time to show the interruption:
- F – Power Failure
- B – Bypass
- P – Paused
- S – STAT Drain/Additional Drain

10 Touch Back

Touch the Back button to return to the “Treatment Summary” screen. Then, to continue to the next step on the next page, touch the Next button when on the “Treatment Summary” screen.
Remove Set Screen 1

Remove Set

6/18/2016 5:10 PM

step 9

Close all clamps

Press next to continue

Next

11

12
11 Close all clamps

Clamp all lines to prevent any fluid spills when removing the disposable set.

**Note:** Clamp all lines to prevent spills. Spills can cause damage to carpeting and other surfaces. To contain such spills, your machine should be on a spill-tolerant surface. Clean up spills immediately.

12 Touch Next

Touch the **Next** button to continue to the next step.
Remove Set Screen 2

Remove Set

6/18/2016 5:10 PM

step 9

Remove cassette

Press next to continue

Next

13

14
13 Remove cassette

Push the door latch to open the cassette door.

**Warning:** Be careful of pinch points in moving parts, injury may occur.

Remove the cassette from your machine. Discard your waste materials as instructed.

**Caution:** If your pump module has moisture in it, your cassette may have a leak. **Save your tubing set** and call a Fresenius Medical Care Technical Support Representative immediately at 1-800-227-2572. You will be contacted about having the used tubing set sample picked up. Please notify your PD nurse about this event.

You should also clean your machine at this time. Follow your PD nurse’s instructions. See “Cleaning Your Cycler,” on page 236.

Close and latch the cassette door again.

14 Touch **Next**

The **Next** button will appear after the door has been closed. Touch the **Next** button to continue.
Power Down Cycler

6/18/2016 5:11 PM

step 10

Your treatment is finished. Have a nice day!

Please turn off power

view your health and treatment data
Have a nice day

Locate the switch on the back of your cycler and turn it off.

You will need to power on your cycler again before your next treatment.

If you need to remove your IQdrive to take it to your dialysis facility, you may safely remove it at this time.

Caution: Handle your IQdrive with care. When taking your IQdrive to and from your dialysis facility, store it in a plastic bag and keep it clean and dry. Do not leave your IQdrive in a hot car or in the bottom of a purse where it can become damaged.

Touch My Records

If you would like to further review your treatment information, restart your cycler and touch the My Records screen-button. See page 166 for an explanation of the “My Records” screen.
This Page is Intentionally Blank
Appendix
Appendix
Appendix

The Appendix explains helpful instructions on different features that you may not use every treatment:

- Viewing the “My Records” screens—Turn to page 166
- Using the STOP key—Turn to page 172
- Using the STAT Drain—Turn to page 174
- Bypassing a phase—Turn to page 176
- Using the IQdrive—Turn to page 182
- Moving your Liberty Select Cycler—Turn to page 190

If you get ‘lost’ in any of these screens, simply touch the Back button, if available, to go to a previous screen. You may also touch any screen-button in the Status Bar to view other screens. See page 32 for more information on screen-buttons.
Note: The values shown here are for example only. You must use the values prescribed by your doctor.
1 Touch **My Records**

Your treatment history is a record of your past treatments. Your cycler saved all the information here during each of your treatments. This information cannot be changed. This information is for you and your PD nurse to review.

You may reach the “My Records” screen from any other screen. Touch the **My Records** screen-button to view your treatment history.

2 **Select treatment date to view**

The select treatment table displays your last six treatments in the main area. Use the **Up/Down Arrow (▼/▲)** keys to scroll through the different pages of your treatments to see older treatment dates, if desired. Touching a treatment date will select that treatment by highlighting it with a blue bar.

Your cycler saves your last 62 days of treatment data.

3 Touch **Details**

Touch the **Details** button to view the treatment details for the selected date.
Treatment Details

<table>
<thead>
<tr>
<th>cycle #</th>
<th>fill vol</th>
<th>fill time</th>
<th>dwell time</th>
<th>drain vol</th>
<th>drain time</th>
<th>UF vol</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2000</td>
<td>15B</td>
<td>60P</td>
<td>1900</td>
<td>20</td>
<td>-100</td>
</tr>
<tr>
<td>1</td>
<td>2000</td>
<td>13</td>
<td>120</td>
<td>2100</td>
<td>18</td>
<td>100</td>
</tr>
<tr>
<td>2</td>
<td>2000</td>
<td>15</td>
<td>905</td>
<td>2000</td>
<td>21B</td>
<td>100</td>
</tr>
<tr>
<td>3</td>
<td>2000</td>
<td>15F</td>
<td>120</td>
<td>2000</td>
<td>20</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>2000</td>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

all volumes in mL
all times in min

net UF: 100

**Note:** The values shown here are for example only. You must use the values prescribed by your doctor.
4 View treatment details

This screen shows information about the selected treatment date. The treatment date is displayed at the top of the Main Area. The information is organized by the cycle number (#) and shows:

- Fill volume
- Fill time
- Dwell time
- Drain volume
- Drain time
- Ultrafiltration volume

**Note:** If the Drain, Fill, Dwell, or Pause times were interrupted at all, the following letters will appear next to the time to show the interruption:

- F – Power Failure
- B – Bypass
- P – Paused
- S – STAT Drain/Additional Drain

**Note:** To go back and select a new treatment date, touch the **Back** button.

5 Touch Next

Touch the **Next** button to view your personal health data for the selected treatment.
Your Personal Health Data

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dextrose 1.5%</td>
<td>500 mL</td>
</tr>
<tr>
<td>Last bag type</td>
<td>1.5</td>
</tr>
<tr>
<td>Pulse</td>
<td>60</td>
</tr>
<tr>
<td>Dextrose 2.5%</td>
<td>500 mL</td>
</tr>
<tr>
<td>Blood glucose</td>
<td>20 mg/dL</td>
</tr>
<tr>
<td>Blood pressure</td>
<td>120 / 70</td>
</tr>
<tr>
<td>Dextrose 4.25%</td>
<td>1000 mL</td>
</tr>
<tr>
<td>Weight</td>
<td>112 lbs</td>
</tr>
<tr>
<td>Temperature</td>
<td>98.2 °F</td>
</tr>
</tbody>
</table>

**Note:** The values shown here are for example only. You must use the values prescribed by your doctor.
6 View screen details

This screen displays the personal data you entered at the end of your treatment (see page 150). If you did not enter any data at that time, the field will display ‘N/A’ for Not Available. The “Your Personal Health Data” screen shows:

- Dextrose 1.5%
- Dextrose 2.5%
- Dextrose 4.25%
- Last bag type
- The weight you entered after treatment
- Blood glucose
- Pulse
- Blood Pressure
- Temperature

7 Touch Back

Touch the Back button to return to the “Your Personal Health Data” screen.

Note: You may touch any of the screen-buttons in the Status Bar to exit the “Personal Health Data” screens.
Using the STOP key
1 Press **STOP**

If it is absolutely necessary to stop your machine when it is performing an action, you may press the **STOP** key. The following green Status Bar machine functions may be stopped:

- Flush
- Prime
- Bag Detect
- Heating
- Drain
- Fill
- Dwell

**Note:** If you are performing a Fill, Dwell, or Pause, you may choose to do an immediate (STAT) drain at this time. Do not press the **OK** key on your cycler; instead turn to the next page of this manual for instructions on performing a STAT drain.

2 Press **OK** when you are ready to continue

When your cycler is stopped, the following occurs:

- The pump motor stops
- The Status Bar changes to yellow
- The word ‘stopped’ appears at the top of the screen
- The words ‘press **OK** to continue’ are displayed at the bottom of the screen.

When you are ready to continue, press the **OK** key.
Using the STAT Drain

Fill 1 of 5
Stopped
6/18/2016 5:31 PM

Volume set
1000 mL

Volume filled
500 mL

Press OK key to continue fill

1

Fill 1 of 5
Stopped
6/18/2016 5:34 PM

select STAT drain option

Are you sure you want to do STAT drain?

STAT drain  Cancel
1 Press **STOP**

If you are performing a Fill, Dwell, or Pause, you may choose to do a STAT (immediate) drain. This unplanned Drain will interrupt your Fill, Dwell, or Pause. Press the **STOP** key to first stop your Fill, Dwell, or Pause.

2 Touch **STAT drain**

After the “Stopped” screen displays the message “Press **OK** key to continue fill,” touch the **STAT drain** button.

3 Touch **STAT drain** on the next screen

Your cycler will display the “Select STAT drain option” screen. To continue with the STAT drain, touch the **STAT drain** button.

If you were previously in a Fill or Dwell cycle, the STAT drain will immediately begin draining your abdomen.

If you were previously in a Pause cycle, your cycler will ask you to reconnect first. See page 140 for information on how to reconnect after a Pause. After you reconnect, the STAT drain will immediately begin draining your abdomen.

During a STAT drain, your cycler will display a “Drain” screen with the word ‘STAT’ in the upper left corner to show that it is running an unplanned drain.

**Note:** A STAT Drain works the same as a regular Drain. You may stop it or bypass it as needed.

**Note:** An additional drain is a planned drain. STAT drain is an unplanned drain.

After your STAT drain is complete, your cycler will either begin a short Dwell or Pause (depending on which cycle you interrupted) so your cycler can prepare the heater bag for your next cycle. Afterward, your cycler will begin your next programmed Fill, if required. Your treatment data will show that you performed a STAT drain (see page 166 for more information).

If you instead do not want to run a STAT drain, either touch the **Cancel** button or wait 10 seconds. Your cycler will go back to the “Stopped” screen (see page 172).
Bypassing a Phase

To perform bypass, see page 180.

Normal Treatment with Prescribed Drain 0

Drain 0 Begins  Drain 0 Ends, Fill 1 Begins  Fill 1 Fills Prescribed Volume  Dwell 1 with Prescribed Volume

Drain 0 Bypassed With Undrained Peritoneal Cavity
(Scenario 2)

Drain 0 Begins But Phase is Bypassed  Fill 1 Begins with Undrained Peritoneal Cavity  Fill 1 Fills Prescribed Volume  Dwell 1 with Excess Volume
Bypassing a phase

To perform bypass, see page 180.

A bypass is the manual skipping of a phase. Your cycler will not allow you to bypass any Drain phase after Drain 0 if there is a danger of overfilling. However, Drain 0 may be bypassed under certain circumstances. If using a daytime dwell, please consult your PD nurse before bypassing Drain 0. Before bypassing you must consider that there are three different scenarios that could occur, depending on your prescription. You and your PD nurse must choose the situation that best describes you:

1. **You do not have a Last Fill programmed** and therefore have a ‘dry day’ or very little fluid left in your abdomen. Your cycler will attempt to drain at least 70% of 50 mL (35 mL) of fluid before switching to Fill 1. (If you changed your drain exit criteria to 85%, however, your cycler will try to drain at least 85% of 50 mL, which is about 43 mL). You can safely bypass Drain 0 during this time.

2. **You do one or more manual daytime exchanges that you did not program into your cycler (see page 124).** In this case, your cycler does not know that you have additional fluid in your abdomen, so you must **NOT** bypass Drain 0. Wait for your cycler to finish draining you before continuing to Fill 1.

3. **You have a Last Fill programmed.** During Drain 0 your cycler will try to drain at least enough so that the next fill will not cause overfilling. Your cycler may or may not be able to drain all of the fluid out because your body might have re-absorbed some of the fluid. If you are receiving alarms, talk with your PD nurse to decide if you should bypass.

It is important to understand the dangers of overfilling. Overfilling (also known as Increased Intraperitoneal Volume, IIPV) is when you have too much fluid in your abdomen. IIPV/overfill may result in serious injury or death from conditions such as: abdominal wall and/or diaphragmatic hernias, hydrothorax, heart problems including chest pain and heart failure, high blood pressure, pulmonary edema, decreased pulmonary function and
pericardial effusion. Patients and caregivers should watch for the potential signs of IIPV. These include:

- Difficulty breathing
- Vomiting or spitting up
- Feeling full, bloated, or overfilled after treatment
- Abdominal pain or discomfort
- Expanded or tense abdomen
- Chest pain
- Increased blood pressure
- Change in mental status
- Leakage of fluid from the PD catheter extension set exit site

If you experience any of these symptoms or feel a large, painful build-up of pressure during your fill, do not finish your fill cycle. Press the STOP key and immediately initiate a STAT Drain as instructed by your PD nurse. See page 174 for more information on how to use the STAT Drain feature. Once the fluid is completely drained from your abdomen, call your doctor or PD nurse.
This Page is Intentionally Blank
Bypassing a Phase (continued)

**Note**: If you accidentally reach this screen and do not want to bypass the current phase, wait a few seconds and you will return to the previous screen.

1. **Press and hold** **OK** for four seconds

   Bypassing (or skipping) any phase of your treatment should be avoided, unless you’ve discussed situations that may
require bypassing with your doctor or PD nurse. If you must bypass a Drain, Fill, Dwell or Pause phase, press and hold the **OK** key for four seconds to display the “bypass current phase” screen.

2 Touch **bypass current phase**

Touch the **bypass current phase** button to skip the current phase and continue to your next exchange. If your cycler calculates that there is still too much fluid in your abdomen, you may not bypass. Your cycler will then display a blinking message, “bypass not allowed at this time” and then go back to the previous screen. Wait until your cycler drains more fluid from your abdomen before trying to bypass again.

**Warning:** If you feel a large, painful build-up of pressure during your fill or any of the signs listed on page 180, do not finish your fill cycle. Press the **STOP** key and immediately initiate a STAT Drain as instructed by your PD nurse. See page 174 for more information on how to use the STAT Drain feature. Once the fluid is completely drained from your abdomen, notify your doctor or PD nurse.

**Warning:** Do not bypass Drain 0 if you have a last fill programmed or if you turn off your cycler after you have filled. Do not bypass Fill 1 if you have a Pause programmed. You must make sure that you have drained enough fluid from your abdomen before bypassing Drain 0. Failure to do so could result in an overfill situation. Overfilling can cause serious injury or death.

**Warning:** If you do not program a manual daytime exchange into your Liberty Select Cycler, your cycler will not know that you have additional fluid in your abdomen. Do NOT bypass Drain 0. Your Liberty Select Cycler will switch to Fill 1 when you are finished draining.

**Note:** If you bypass during a Fill or Dwell, you will either not receive your prescribed amount of dialysate or not have as much time to filter out the waste. Your treatment may not be as effective. The letter ‘B’ will be displayed next to your treatment details in the “My Records” screen to show a bypass occurred. For more information, see “Treatment Details” on page 166.
Using the IQdrive
(Optional)
IQdrive overview

The IQdrive is a device used to transfer your prescription and treatment data. The ‘USB enabled’ option must be set to YES to access it (see page 86). Your PD nurse will provide you with an IQdrive, program it with your therapy settings, and explain how to use it for record-keeping. The IQdrive fits into the USB port on the back of your cycler.

**Caution:** Handle your IQdrive with care. When taking your IQdrive to and from your dialysis facility, store it in a plastic bag and keep it clean and dry. Do not leave your IQdrive in a hot car or in the bottom of a purse where it can become damaged.

**Caution:** Your Liberty Select Cycler IQdrive is only for use with your Liberty Select Cycler. Do not use your IQdrive to store your own data from other sources (for example, digital photos from your computer). Storing personal data on your IQdrive will corrupt your treatment data and your Liberty Select Cycler will no longer be able to record your treatment progress on your IQdrive. Your PD nurse will then need to erase everything on your IQdrive and reformat it.

**Note:** If the ‘USB enabled’ option is set to YES but no IQdrive is inserted in the IQdrive slot upon power-up, you will have two choices: Either continue without using the IQdrive (by pressing the OK key) or insert the IQdrive immediately.

Inserting the IQdrive

Insert the rectangular metal end of the IQdrive into the slot (USB port) in the back, left corner of your cycler as shown in the picture to the left. The IQdrive can only be inserted in one way. If the device does not fit, turn it over and try again.

**Note:** If your cycler displays the message, “IQdrive not detected,” remove the IQdrive and firmly re-insert it to try again.
USB Upload

6/18/2016 5:36 PM

Program cycler with new IQdrive settings?

<table>
<thead>
<tr>
<th></th>
<th>Fill Volume</th>
<th>Dwell Time</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td># fills</td>
<td>6</td>
<td>2000 mL</td>
<td>1 hr 0 min</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td># pauses</td>
<td>1</td>
<td>1000 mL</td>
<td>0 hr 15 min</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Last fill volume</td>
<td>500 mL</td>
<td>Drain Time</td>
<td>0 hr 20 min</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Therapy</td>
<td>PD+</td>
<td>Total Volume</td>
<td>9500 mL</td>
<td></td>
<td>Total Sleep Time</td>
<td>7 hr 30 min</td>
<td></td>
</tr>
</tbody>
</table>

Note: The values shown here are for example only. You must use the values prescribed by your doctor.
USB Upload

The first time you insert the IQdrive and power-up your cycler, this screen will be displayed. This screen will also be displayed if your PD nurse changes your prescription on the IQdrive.

The main area of the “USB Upload” screen displays the therapy settings to be uploaded onto your cycler. You must carefully review them to make sure they match your doctor’s prescription.

**Warning:** Your doctor must prescribe your entire treatment. Using incorrect values could result in complications that may be severe.

To the right side are three buttons:

- **Accept**—Touch this button to use the new settings for your therapy.
- **Reject**—Touch this button if the IQdrive settings are incorrect. You will use the old therapy settings that are saved to your cycler.
- **Current Settings**—Touch this button to review your old therapy settings. From that screen you may touch the **IQdrive Settings** button to return to this screen.

After selecting either **Accept** or **Reject**, you will move to the “Ready” screen as usual. Turn to page 52 to continue entering your treatment values or, if already entered, turn to page 94 to begin your treatment.

**Note:** Do not remove the IQdrive until your treatment is complete. If the device is removed early, your data cannot be saved to the IQdrive. You may keep the IQdrive in your cycler until your PD nurse asks you to bring it on your next clinic visit.

**Note:** If you choose to reject the IQdrive prescription, you will have to reject it for every treatment until you insert an IQdrive with an updated prescription. Contact your PD nurse if you need to update your prescription on your IQdrive.
Data Security
The data files transferred via the IQdrive contain only patient data. The data is encrypted with a key based encryption. The encrypted data cannot be read without reapplying the encryption algorithm thereby ensuring the security of the data.
Using the Wireless Modem (Optional)

View From Back of Liberty Select Cycler

RS-232 Port (Modem Connection)
Wireless Modem overview

The wireless modem is an optional device used to automatically transfer your treatment data at the end of each treatment to the Fresenius Medical Care hosted FTP server. The modem connects to the RS-232 port on the back of your cycler. Depending on your cycler, the RS-232 port is either sticking out with a cap covering it, or is mounted flush with the cycler casing. Your PD nurse will provide you with a wireless modem if needed.

**Note:** The modem is not in use during treatment.

**Note:** Your cycler does not receive any inputs or therapy settings using the modem.

**Note:** If the treatment data transfer is not successful, your cycler will retry the transfer at the end of next treatment. To view the treatment data on your cycler, see “The My Records Screen-Button,” on page 166.

**Note:** For more information on the wireless modem, see either the Liberty Select Cycler Wireless Modem User’s Guide (P/N 480106 or P/N 480107), or the Liberty Gateway User’s Guide (P/N 480122).

**Note:** Do not connect any other modems or accessories to your cycler that are not approved by Fresenius Medical Care.

**Note:** Do not modify the modem provided to you by Fresenius Medical Care.

**Note:** Do not connect or disconnect the modem from your cycler when the cycler is powered on.

Data Security

The data files transferred via the cellular modem contain only the treatment and patient information collected and stored within the Liberty Select Cycler. The data is encrypted with a key-based encryption. Encrypted data cannot be read without reapplying the encryption algorithm, or ‘key’, thereby ensuring the security of the data.
Moving Your Liberty Select Cycler
Moving your Liberty Select Cycler

Your Liberty Select Cycler is designed to be portable so you may easily continue your dialysis therapy when you travel.

Unplug your cycler’s power cord from the unit before moving it. Hold your cycler by its handles on either side when lifting it.

**Warning**: Use proper lifting techniques: lift with your knees and not your back.

**Caution**: Do not lift your machine by the heater tray-scale. Doing this may damage the scale.

**Caution**: If you are using the Liberty cart, be sure to properly balance the solution bags by hanging them on both sides of the cart. Unbalanced bags on the cart may cause it to tip over and damage your machine. The maximum load limit on the Liberty cart in addition to the cycler is 60 lbs. (2.2 lbs. per Liter of solution). Do not overload the Liberty cart. Make sure that you set the cart brakes to OFF when moving the cart and ON when the cart is stationary.

**Note**: It is recommended that you pack your cycler in its shipping box or Liberty Cycler Travel Case, P/N 180249 when you travel outside of your home. Use the original packing material to protect your cycler when it is in the box.
Alarms & Troubleshooting
Warnings and Alarms

Press STOP key to silence alarm

Thermistor reading out of range!

Press STOP to mute
Warnings and Alarms Overview

Your Liberty Select Cycler has an advanced system of features that work for your safety. Electronic sensors and diagnostic software constantly monitor your machine’s operation. When problems or possible problems are detected, your machine warns you with Status Bar messages and audible alarms.

**Warning:** All warnings and alarms need your immediate attention. Failure to do so could result in complications that may be severe.

**Warning:** Contact a Fresenius Medical Care Technical Support Representative at 1-800-227-2572 if an alarm message is displayed and there is no alarm sound.

**Warnings**

During a warning the Status Bar turns orange and an audible alarm sounds. Press the **STOP** key to silence your cycler. With some warnings, pressing the **OK** key will start a retest and may clear the condition causing the alarm. If available, a **Help** button will appear in the button area (see “Warning: The Help Button” on page 200). You then have the chance to correct the situation by following on-screen instructions. After the problem is corrected, you may continue with your treatment. Types of warnings include:

**Heater Warning**

The heater temperature is reading too high or too low.

**Patient Sensor Warning**

The patient sensor is reading incorrectly or is out of range.

**Pneumatic Warning**

The pneumatic sensor is reading incorrectly or is out of range.

**Scale Warning**

The scale is reading incorrectly or there is a mismatch in volume pumped versus scale change.

**Self Test Warning**

A self test has failed but may still be retried.

(continued)
Warnings and Alarms (continued)

Heater Alarm

6/18/2016  5:39 PM

Solution temperature high!

Press STOP to mute

Error Code
Sensor Warning

The sensors are reading incorrectly.

Stopped Warning

You have stopped a function longer than ten minutes. You must press the STOP key to silence the alarm and then press the OK key to continue if necessary.

System Warning

An error has occurred in the system.

Treatment Warning

A resettable error relating to your treatment has occurred.

Note: Many of the command and control features of this device are performed via the touch screen display. In the event the touch screen does not respond, disconnect from the cycler by inserting the PIN, clamping the lines, aseptically disconnecting from the cycler, turning the cycler off, and calling service.

Alarms

During an alarm, the Status Bar background turns red and an audible alarm sounds. Press the STOP key to silence your cycler. Record the error code and call a Technical Service Representative at 1-800-227-2572. The following are alarms:

Battery RAM Alarm

Your cycler cannot access battery RAM.

CRC Alarm

A critical software error has occurred.

EEPROM Alarm

A critical circuit board error has occurred.
(continued)

**Heater Alarm**

The heater temperature is reading too high or too low and cannot be corrected.

**Pneumatic Alarm**

The pneumatic sensor is reading incorrectly or is out of range and cannot be corrected.

**Self Test Alarm**

A self test has failed after repeated retests.

**System Error**

A critical error has occurred.

**Treatment Alarm**

A Treatment Warning was not able to be corrected.

**Watchdog Alarm**

A critical software error has occurred.
Warning: The Help Button

Self Test Warning
6/18/2016  5:41 PM

Thermistor reading out of range!

Press OK to retry

1  2
1 Press STOP

Press the STOP key to silence an audible warning or alarm. If available, a Help button will appear in the button area.

2 Touch Help

During a warning, your machine may offer a Help button to help solve some problems. If you need more information during an alarm, touch the Help button.

Warning messages are triggered by conditions and events that occur in your machine during operation. The running function will stop during a warning situation. When the condition causing them is corrected, the machine will reset back to its normal condition. Some conditions may be reset simply by pressing the OK key when prompted. In some cases, you can reset the machine yourself to clear the error.

Note: During an alarm or warning, all the screen-buttons in the Status Bar are unavailable.

Note: For more information on correcting alarms, see “Troubleshooting,” page 206.
Warning: Help Screens

Thermistor reading out of range!
- Make sure nothing is on top of heater tray
- Make sure cycler has cooled down
- Make sure cycler is not placed near a heat source
3 Follow steps

Your machine displays specific instructions for each warning. Follow the steps on the screen to correct a warning situation. If you are unable to clear a warning by following the instructions on the screen or in this User’s Guide, call a Fresenius Medical Care Technical Support Representative at 1-800-227-2572.

Warning: Do not continue your treatment until the warning situation has been corrected.

4 Press OK

When you have corrected the warning situation, press the OK key (or Back first, then OK) to resume the function. You will return to the last step you were on before the warning occurred.
Alarm: Red Status Bar

EEPROM Alarm
6/18/2016 5:43 PM

Record Error Code
Press STOP to mute
Turn power OFF

- Press STOP to mute
- Record error code
- Disconnect yourself if connected

Turn off cycler and call service
Alarm

During an alarm, the Status Bar turns red. Alarms are not resettable. Record the error code (located on the right side just below the Status Bar), Insert PIN, Clamp Lines, Aseptically disconnect from the Cycler, and turn your machine off using the power switch on the back. Call a Fresenius Medical Care Technical Support Representative at 1-800-227-2572.

---

**Warning**: If your machine alarms, do not attempt to use it for treatment.

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You will also be asked for your Liberty Select Cycler serial number and software version, which is found on the top of your cycler above the cassette door.
Troubleshooting

The troubleshooting section is a guide to help you troubleshoot machine alarms and messages quickly. These messages are caused by conditions and events that occur in your machine during operation. The messages will reset when the condition causing them is corrected. Some conditions may be reset simply by pressing the **OK** key when prompted. In some cases, you must correct the errors yourself. Alarms in which the Status Bar turns red cannot be resolved by your own action; you must call a Fresenius Medical Care Technical Support Representative at 1-800-227-2572.

---

**Warning:** Doing the recommended action may or may not clear the alarm or warning. Do not continue your treatment until the conditions causing these messages are corrected and the messages are cleared.

---

**Warning:** You must use aseptic technique as directed by your PD nurse to prevent infection.

---

**Warning:** Use a new, sterile stay•safe PIN connector and cap *every* time you disconnect from your cycler. Be sure to insert the new, sterile cap into the stay•safe Organizer New Cap Holder before you disconnect.

---

**Note:** Refer to the “General Warnings” section, on page 17, for additional warnings.

---

**Note:** When your cycler displays the message “Press the OK key to retry,” try it at least three (3) times before calling your PD nurse or a Fresenius Medical Care Technical Support Representative at 1-800-227-2572.

---

**Note:** Machines taken out of service should be tested and repaired by a qualified FMCNA technician.
When your cycler prompts you to “disconnect from cycler”:
- Twist the blue PIN connector 1/4 turn and then push it in to release PIN into the extension set
- Close patient line blue clamp
- Close catheter extension set clamp
- Carefully disconnect the patient line from your extension set and cap off with a new sterile stay•safe cap
- Check that your catheter/extension set is firmly anchored in place

There are two tables on the following pages that list the meaning of the messages and how the error can be resolved. The first table (page 208) lists every error code and the corresponding alarm or warning message. The second table (page 217) lists all messages in alphabetical order.

Be sure to record the error code so you may look up the alarm message. If you call a Fresenius Medical Care Technical Support Representative at 1-800-227-2572, they will also need this code. The error code is located below the **My Treatment** button:
Note: Press the STOP key to silence an audible warning or alarm.

## Error messages listed by code

<table>
<thead>
<tr>
<th>Code</th>
<th>Message</th>
<th>Meaning</th>
<th>Action Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>M01</td>
<td>System Error</td>
<td>An unrecoverable error has occurred.</td>
<td>Press STOP to mute. Record error code. Insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer. Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td>Subcodes 1 to 20, 22 and 23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M01</td>
<td>System Warning</td>
<td>An unexpected error has occurred.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>Subcode 21</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M21</td>
<td>Sensor Warning: Invalid sensor readings!</td>
<td>A sensor is reading incorrectly.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>M22</td>
<td>Self Test Alarm: Safety Clamp Error!</td>
<td>The safety clamp self test has failed three times.</td>
<td>Press STOP to mute. Record error code. If connected, insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer. Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td>Code</td>
<td>Message</td>
<td>Meaning</td>
<td>Action Required</td>
</tr>
<tr>
<td>-------</td>
<td>----------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>M30</td>
<td>Self Test Warning: Balloon Valve leak!</td>
<td>The self test has failed due to a possible balloon valve leak during setup.</td>
<td>Press the <strong>OK</strong> key to retry.</td>
</tr>
<tr>
<td>M30.1</td>
<td>Pneumatic Alarm: Balloon Valve leak!</td>
<td>The test has failed due to a possible balloon valve leak during treatment.</td>
<td>Press STOP to mute. Record error code. Insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer. Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td>M31</td>
<td>Treatment Warning: Air detected in cassette!</td>
<td>The test failed due to possible air detection in cassette.</td>
<td>Press the <strong>OK</strong> key to retry.</td>
</tr>
<tr>
<td>M37</td>
<td>Self Test Warning: Patient pressure not constant!</td>
<td>The self test has failed due to an error with one or both of the pressure sensors used to measure fluid pressure in the cassette.</td>
<td>Press the <strong>OK</strong> key to retry.</td>
</tr>
<tr>
<td>M38</td>
<td>Treatment Alarm: Treatment data error!</td>
<td>An unrecoverable error has occurred.</td>
<td>Press STOP to mute. Record error code. Insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer. Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td>Code</td>
<td>Message</td>
<td>Meaning</td>
<td>Action Required</td>
</tr>
<tr>
<td>------</td>
<td>---------</td>
<td>---------</td>
<td>-----------------</td>
</tr>
<tr>
<td>M39</td>
<td>Patient Sensor Warning: Patient sensors against vacuum sensors!</td>
<td>An error with a sensor used to measure fluid pressure in the cassette.</td>
<td>Press the <strong>OK</strong> key to retry.</td>
</tr>
<tr>
<td>M41</td>
<td>Patient Sensor Warning: Patient sensors too high!</td>
<td>An error with a sensor used to measure fluid pressure in the cassette.</td>
<td>Press the <strong>OK</strong> key to retry.</td>
</tr>
<tr>
<td>M42</td>
<td>Patient Sensor Warning: Patient vacuum too high!</td>
<td>An error with a sensor used to measure fluid pressure in the cassette.</td>
<td>Press the <strong>OK</strong> key to retry.</td>
</tr>
<tr>
<td>M44</td>
<td>Treatment Alarm: Flowpath error!</td>
<td>An unrecoverable error has occurred.</td>
<td>Press STOP to mute. Record error code. Insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer. Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td>M44.1</td>
<td>Treatment Alarm: Flowpath error!</td>
<td>An unrecoverable error has occurred.</td>
<td>Press STOP to mute. Record error code. Insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer. Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td>Code</td>
<td>Message</td>
<td>Meaning</td>
<td>Action Required</td>
</tr>
<tr>
<td>--------</td>
<td>--------------------------------------</td>
<td>---------------------------------------------------</td>
<td>-----------------------------------------------------</td>
</tr>
<tr>
<td>M44.2</td>
<td>Treatment Alarm: Flowpath error!</td>
<td>An unrecoverable error has occurred.</td>
<td>Press STOP to mute. Record error code. Insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td>M53</td>
<td>Self Test Warning: Pressure out of range!</td>
<td>The self test has failed due to pressures being out of range.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>M54</td>
<td>Pneumatic Warning: Pressure reading low!</td>
<td>The cycler’s pneumatic pressure is reading too low.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>M55</td>
<td>Pneumatic Warning: Pressure reading high!</td>
<td>The cycler’s pneumatic pressure is reading too high.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>M56</td>
<td>Pneumatic Warning: Vacuum reading low!</td>
<td>The cycler is reading low vacuum pressure.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>M57</td>
<td>Pneumatic Warning: Vacuum reading high!</td>
<td>The cycler’s vacuum pressure is reading too high.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>M58</td>
<td>Self Test Warning: Vacuum out of range!</td>
<td>The self test has failed due to vacuum pressures being out of range.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>M59</td>
<td>Self Test Warning: Pressure leak!</td>
<td>The self-test has failed due to a possible air pressure leak.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>M60</td>
<td>Self Test Warning: Vacuum leak!</td>
<td>The self test has failed due to a possible vacuum leak.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>Code</td>
<td>Message</td>
<td>Meaning</td>
<td>Action Required</td>
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</tr>
<tr>
<td>M61</td>
<td>Self Test Warning: Pressure production low!</td>
<td>The self test has failed due to low pressures.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>M62</td>
<td>Self Test Warning: Vacuum production low!</td>
<td>The self test has failed due to low vacuum pressures.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>M63</td>
<td>Self Test Warning: Remove Heater Bag from Heater Tray</td>
<td>The self test detects a heater bag on the heater tray when not expected.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>M65</td>
<td>Scale Warning: Scale reading error!</td>
<td>Unexpected scale change during treatment</td>
<td>Remove anything from the heater tray other than the heater bag. Press the OK key to retry.</td>
</tr>
<tr>
<td>M66</td>
<td>Self Test Warning: Thermistor reading out of range!</td>
<td>The self test has failed due to a temperature sensor being out of range</td>
<td>Make sure nothing is on top of heater tray. Make sure cycler has cooled down. Make sure cycler is not placed near a heat source. Press the OK key to retry.</td>
</tr>
<tr>
<td>M67</td>
<td>Self Test Alarm: Fluid temperature out of range!</td>
<td>The solution temperature test has failed.</td>
<td>Press STOP to mute. Record error code. Insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer. Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td>Code</td>
<td>Message</td>
<td>Meaning</td>
<td>Action Required</td>
</tr>
<tr>
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</tr>
<tr>
<td>M68</td>
<td>Heater Warning: Heater temperature too high!</td>
<td>The solution temperature test has failed due to high temperatures.</td>
<td>Remove anything from the heater tray other than the heater bag. Make sure cycler is not placed near a heat source. Press the <strong>OK</strong> key to retry.</td>
</tr>
<tr>
<td>M69</td>
<td>Heater Alarm: Solution temperature high!</td>
<td>The solution temperature test has failed three times due to high temperatures.</td>
<td>Press <strong>STOP</strong> to mute. Record error code. Insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer. Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td>M70</td>
<td>Heater Warning: Solution temperature low!</td>
<td>The solution temperature test has failed due to low temperatures.</td>
<td>Cold bags will increase warming time, be sure to store your bags at room temperature. Check if heater plate (tray) is warm to touch. Check for external cooling sources: Be sure there are no open windows, drafts, or fans or air conditioners blowing on your cycler. Press the <strong>OK</strong> key to retry.</td>
</tr>
<tr>
<td>Code</td>
<td>Message</td>
<td>Meaning</td>
<td>Action Required</td>
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</tr>
<tr>
<td>M71.1</td>
<td>Pneumatic Alarm: Pressure leak!</td>
<td>The cycler has failed due to a possible air pressure leak.</td>
<td>Press STOP to mute. Record error code. Insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer. Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td>M71.2</td>
<td>Pneumatic Alarm: Pressure leak!</td>
<td>The cycler has failed due to a possible balloon valve air pressure leak.</td>
<td>Press STOP to mute. Record error code. Insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer. Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td>M71.3</td>
<td>Pneumatic Alarm: Pressure leak!</td>
<td>The cycler has failed due to a possible vacuum leak.</td>
<td>Press STOP to mute. Record error code. Insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer. Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td>Code</td>
<td>Message</td>
<td>Meaning</td>
<td>Action Required</td>
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</tr>
<tr>
<td>M74</td>
<td>Treatment Alarm: Treatment start error!</td>
<td>An unrecoverable error has occurred.</td>
<td>Press STOP to mute. Record error code. Insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer. Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td>M75</td>
<td>Treatment Warning: Volume error!</td>
<td>Volume is not being pumped although the pumps are moving.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>M76</td>
<td>Treatment Alarm: Pause time error!</td>
<td>An unrecoverable error has occurred.</td>
<td>Press STOP to mute. Record error code. Insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer. Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td>M77</td>
<td>Treatment Warning: Encoder flag error!</td>
<td>Treatment error.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>MWD</td>
<td>Watchdog Alarm: Watchdog timer Error!</td>
<td>An unrecoverable error has occurred.</td>
<td>Record error code. Disconnect yourself from cycler if connected. Turn off cycler and call service.</td>
</tr>
<tr>
<td>Code</td>
<td>Message</td>
<td>Meaning</td>
<td>Action Required</td>
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</tr>
<tr>
<td>S_002</td>
<td>CRC Alarm: CRC Error!</td>
<td>The CRC is corrupted.</td>
<td>Record error code. Disconnect yourself from cycler if connected. Turn off cycler and call service.</td>
</tr>
<tr>
<td>S_003</td>
<td>Battery RAM Alarm: Battery RAM Error!</td>
<td>The battery RAM is corrupted.</td>
<td>Record error code. Disconnect yourself from cycler if connected. Turn off cycler and call service.</td>
</tr>
<tr>
<td>S_004</td>
<td>EEPROM Alarm: EEPROM Error!</td>
<td>During startup, the cycler cannot properly read the EEPROM memory chip.</td>
<td>Record error code. Disconnect yourself from cycler if connected. Turn off cycler and call service.</td>
</tr>
<tr>
<td>S_005</td>
<td>System Error</td>
<td>An unrecoverable error has occurred.</td>
<td>Record error code. Disconnect yourself from cycler if connected. Turn off cycler and call service.</td>
</tr>
</tbody>
</table>
Note: Press the STOP key to silence an audible warning or alarm.

Error messages listed alphabetically

<table>
<thead>
<tr>
<th>Message</th>
<th>Meaning</th>
<th>Action Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery RAM Alarm: Battery RAM Error!</td>
<td>The battery RAM is corrupted.</td>
<td>Record error code. Disconnect yourself from cycler if connected. Turn off cycler and call service.</td>
</tr>
<tr>
<td>Bypass not allowed!</td>
<td>The operator has tried to bypass the current phase.</td>
<td>No action is required. You cannot bypass while the heater bag is filling, if it does not have enough solution for the next fill. If your cycler detects that an overfill situation could occur (150% = next Fill + amount not drained from previous Fills), you cannot bypass and the machine will continue to attempt to drain you until it is safe to move on to the next Fill.</td>
</tr>
<tr>
<td>CRC Alarm: CRC Error!</td>
<td>The CRC is corrupted.</td>
<td>Record error code. Disconnect yourself from cycler if connected. Turn off cycler and call service.</td>
</tr>
<tr>
<td>Message</td>
<td>Meaning</td>
<td>Action Required</td>
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</tr>
<tr>
<td>Drain complication encountered. Please check patient and drain lines.</td>
<td>Your cycler checks halfway through a Drain cycle to see if you have drained at least 35% (or 42.5% if Drain exit % option is 85%) of your expected drain volume. If not, your cycler will beep to alert you of a low drain rate. If you still haven’t drained at least 70% (or 85% if Drain exit % option is 85%) of your previous Fill by the end of the Drain, your cycler will alert you again that you are having drain complications.</td>
<td>Check the Drain Line (Yellow clamp) is not kinked, bent, or clamped. Check that your patient line (blue clamp) is not kinked or clamped. Check for fibrin or clots in the drain line. If so, contact your PD nurse for instructions on what to do. Change positions to move fluid within your abdomen. Check that the Drain Line is properly placed in drainage receptacle such as a toilet, sink or bathtub. Check position of drain bags and make sure they are flat and not on top of each other. Are you constipated? If so, contact your PD nurse for instructions on what to do. Check that your catheter/extension set is adequately secured. Press the OK key to retry.</td>
</tr>
<tr>
<td>Drain Line is blocked. Please check the drain line.</td>
<td>Your cycler is having trouble pumping used dialysate to the drain.</td>
<td>Make sure that the Drain Line (Yellow clamp) is properly connected, the clamps are open and there is no kink in the line. Press the OK key to retry.</td>
</tr>
<tr>
<td>EEPROM Alarm: EEPROM Error!</td>
<td>During startup, the cycler cannot properly read the EEPROM memory chip.</td>
<td>Record error code. Disconnect yourself from cycler if connected. Turn off cycler and call service.</td>
</tr>
<tr>
<td>Message</td>
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<td>Action Required</td>
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</tr>
<tr>
<td>Fill complication encountered. Please check heater, patient, and drain lines.</td>
<td>Your cycler is having trouble pumping dialysate to you.</td>
<td>Make sure that the Heater Bag Line (Red clamp) is properly connected, the clamps are open and there is no kink in the line. Make sure that the Heater Bag is properly positioned on the Heater Tray (see page 106). Make sure that the patient line (blue clamp) is properly connected, the clamps are open and there is no kink in the line. Make sure that the Drain Line (Yellow clamp) is properly connected, the clamps are open and there is no kink in the line. Press the OK key to retry.</td>
</tr>
<tr>
<td>Heater Alarm: Solution temperature high!</td>
<td>The solution temperature test has failed three times due to high temperatures.</td>
<td>Press STOP to mute. Record error code. Insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer. Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td>Heater bag not detected.</td>
<td>Your cycler is having trouble pumping dialysate from the heater bag.</td>
<td>Make sure that the Heater Bag Line (Red clamp) is properly connected, the clamps are open and there is no kink in the line. Make sure that the Heater Bag is properly positioned on the Heater Tray (see page 106) and the cone is broken. Press the OK key to retry.</td>
</tr>
<tr>
<td>Heater Warning: Heater temperature too high!</td>
<td>The solution temperature test has failed due to high temperatures.</td>
<td>Remove anything from the heater tray other than the heater bag. Make sure cycler is not placed near a heat source. Press the OK key to retry.</td>
</tr>
<tr>
<td>Message</td>
<td>Meaning</td>
<td>Action Required</td>
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<tr>
<td>Heater Warning: Solution</td>
<td>The solution temperature test has failed due to low temperatures.</td>
<td>Cold bags will increase warming time, be sure to store your bags at room</td>
</tr>
<tr>
<td>temperature low!</td>
<td></td>
<td>temperature. Check if heater plate (tray) is warm to touch.</td>
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<td></td>
<td>Check for external cooling sources: Be sure there are no open windows, drafts,</td>
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<td></td>
<td></td>
<td>or fans or air conditioners blowing on your cycler.</td>
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<td>Press the <strong>OK</strong> key to retry.</td>
</tr>
<tr>
<td>IQdrive not detected</td>
<td>The IQdrive is either not inserted or not inserted correctly.</td>
<td>Remove the IQdrive and firmly re-insert it to try again. Or press the <strong>OK</strong> key</td>
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<td>to ignore the message and continue without using the IQdrive.</td>
</tr>
<tr>
<td>IQdrive Port Error</td>
<td>Your cycler cannot access the IQdrive.</td>
<td>Turn off cycler, wait 10 seconds, and turn it back on again. If the message is</td>
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<td>not cleared, call service. If you are not going to use the IQdrive, press the</td>
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<tr>
<td></td>
<td></td>
<td><strong>OK</strong> key to ignore the message and continue without using the IQdrive.</td>
</tr>
<tr>
<td>Make sure the heater bag is on</td>
<td>Your cycler is having trouble pumping dialysate from the heater bag.</td>
<td>Make sure that the Heater Bag Line (Red clamp) is properly connected, the clamps</td>
</tr>
<tr>
<td>the heater tray and the line is</td>
<td></td>
<td>are open and there is no kink in the line. Make sure that the Heater Bag is</td>
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<tr>
<td>not clamped.</td>
<td></td>
<td>properly positioned on the Heater Tray (see page 106) and the cone is broken.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Press the <strong>OK</strong> key to retry.</td>
</tr>
<tr>
<td>Patient line is blocked!</td>
<td>Your cycler is having trouble pumping dialysate into or out of your</td>
<td>Change positions to move fluid within your abdomen. Check that your patient line</td>
</tr>
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<td>body. You may hear several beeps when this message is displayed. This is</td>
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<td>referred to as a “Soft alarm”. You do not need to press <strong>STOP</strong> key at this</td>
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<tr>
<td></td>
<td></td>
<td>time.</td>
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<td></td>
<td>Check that your patient line (blue clamp) is not kinked or clamped.</td>
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<td></td>
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<td>Check for fibrin or clots in the drain line. If any are visible, contact your PD</td>
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<td>nurse for instructions on what to do.</td>
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<td></td>
<td>Are you constipated? If so, contact your PD nurse for instructions on what to</td>
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<td></td>
<td>do.</td>
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<td></td>
<td>Check that your catheter/extension set is adequately secured.</td>
</tr>
<tr>
<td>Message</td>
<td>Meaning</td>
<td>Action Required</td>
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</tr>
<tr>
<td>Patient line is blocked. Please check the patient line.</td>
<td>Your cycler is having trouble pumping dialysate into your body.</td>
<td>Make sure that the patient line (blue clamp) is properly connected, the clamps are open and there is no kink in the line. Press the OK key to retry.</td>
</tr>
<tr>
<td>Patient Sensor Warning: Patient sensors against vacuum sensors!</td>
<td>An error with a sensor used to measure fluid pressure in the cassette.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>Patient Sensor Warning: Patient sensors too high!</td>
<td>An error with a sensor used to measure fluid pressure in the cassette.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>Patient Sensor Warning: Patient vacuum too high!</td>
<td>An error with a sensor used to measure fluid pressure in the cassette.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>Please do not insert cassette now. Close Cassette Door.</td>
<td>The cassette is inserted in your cycler before your treatment has started. Or your cassette door is open when it should be closed.</td>
<td>If the cassette is inserted in your cycler, remove the cassette and close the door. Make sure the door is closed securely. Press the OK key to retry.</td>
</tr>
<tr>
<td>Please wait for solution to cool down</td>
<td>The Drain phase is finished but the heater bag solution temperature is above 38°C. The cycler will not allow Fill to begin until the temperature drops below 38°C.</td>
<td>Wait for the heater bag temperature to decrease. If this message occurs frequently, check for external heating sources and make sure that the room temperature is cooler than 92°F (33°C).</td>
</tr>
<tr>
<td>Please wait for solution to warm up</td>
<td>The Drain phase is finished but the heater bag solution temperature is still below 25°C. The cycler will not allow Fill to begin until the temperature reaches 33°C.</td>
<td>Wait for the heater bag temperature to increase. If this message occurs frequently, check for external cooling sources: Be sure there are no open windows, drafts, or fans or air conditioners blowing on your cycler.</td>
</tr>
<tr>
<td>Message</td>
<td>Meaning</td>
<td>Action Required</td>
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</tr>
<tr>
<td><strong>Pneumatic Alarm: Balloon Valve Leak!</strong></td>
<td>The cycler has failed due to a possible balloon valve air pressure leak during treatment.</td>
<td>Press STOP to mute. Record error code. Insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer. Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td><strong>Pneumatic Alarm: Pressure leak!</strong></td>
<td>An air pressure leak has been detected and the cycler cannot recover.</td>
<td>Press STOP to mute. Record error code. Insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer. Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td><strong>Pneumatic Warning: Pressure reading high!</strong></td>
<td>The cycler’s pneumatic pressure is reading too high.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td><strong>Pneumatic Warning: Pressure reading low!</strong></td>
<td>The cycler’s pneumatic pressure is reading too low.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td><strong>Pneumatic Warning: Vacuum reading high!</strong></td>
<td>The cycler’s vacuum pressure is reading too high.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td><strong>Pneumatic Warning: Vacuum reading low!</strong></td>
<td>The cycler is reading low vacuum pressure.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td><strong>Scale Warning: Scale reading error!</strong></td>
<td>The heater bag on the scale is not within allowable limits.</td>
<td>Remove anything from the heater tray other than the heater bag. Press the OK key to retry.</td>
</tr>
<tr>
<td>Message</td>
<td>Meaning</td>
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</tr>
<tr>
<td>Self Test Alarm: Fluid temperature out of range!</td>
<td>The solution temperature test has failed.</td>
<td>Press STOP to mute. Record error code. Insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer. Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td>Self Test Alarm: Safety Clamp Error!</td>
<td>The safety clamp test has failed three times.</td>
<td>Press STOP to mute. Record error code. If connected, insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer. Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td>Self Test Warning: Balloon Valve leak!</td>
<td>The self test has failed due to a possible balloon valve leak.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>Self Test Warning: Patient pressure not constant!</td>
<td>The self test has failed due to an error with one or both of the pressure sensors used to measure fluid pressure in the cassette.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>Self Test Warning: Pressure leak!</td>
<td>The self test has failed due to a possible air pressure leak.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>Self Test Warning: Pressure out of range!</td>
<td>The self test has failed due to pressures being out of range.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>Self Test Warning: Pressure production low!</td>
<td>The self test has failed due to low pressures.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>Message</td>
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</tr>
<tr>
<td>Self Test Warning: Remove Heater Bag from Heater Tray</td>
<td>The self test detects a heater bag on the heater tray when not expected.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>Self Test Warning: Thermistor reading out of range!</td>
<td>The self test has failed due to a temperature sensor being out of range.</td>
<td>Make sure nothing is on top of heater tray. Make sure cycler has cooled down. Make sure cycler is not placed near a heat source. Press the OK key to retry.</td>
</tr>
<tr>
<td>Self Test Warning: Vacuum leak!</td>
<td>The self test has failed due to a possible vacuum leak.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>Self Test Warning: Vacuum out of range!</td>
<td>The self test has failed due to vacuum pressures being out of range.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>Self Test Warning: Vacuum production low!</td>
<td>The self test has failed due to low vacuum pressures.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>Sensor Warning: Invalid sensor readings!</td>
<td>A sensor is reading incorrectly.</td>
<td>Press the OK key to retry.</td>
</tr>
<tr>
<td>Solution is warming. Press OK key to start fill...</td>
<td>The solution temperature is cool (25°C/77°F). The user must choose whether or not to wait for it to reach the set temperature.</td>
<td>To continue Fill with cool solution, press the OK key; otherwise, wait until your solution has reached the set temperature to continue. When the set temperature has been reached, it will automatically start the Fill.</td>
</tr>
<tr>
<td>Supply Lines are blocked. Please check the supply lines.</td>
<td>Your cycler is having trouble pumping out of the solution bags.</td>
<td>Make sure that the solution lines (White and Green clamps) are properly connected, the clamps are open and there is no kink in the lines. Make sure the cones are all broken. Make sure that the bags are not empty. Press the OK key to retry.</td>
</tr>
<tr>
<td>Message</td>
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<td>Action Required</td>
</tr>
<tr>
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</tr>
<tr>
<td>System Error</td>
<td>An unrecoverable error has occurred.</td>
<td>Record error code. Disconnect yourself from cycler if connected.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Turn off cycler and call service.</td>
</tr>
<tr>
<td>System Warning</td>
<td>An unexpected error has occurred.</td>
<td>Press the <strong>OK</strong> key to retry.</td>
</tr>
<tr>
<td>Treatment Alarm: Flowpath error!</td>
<td>An unrecoverable error has occurred.</td>
<td>Press STOP to mute. Record error code. Insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer. Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td>Treatment Alarm: Pause time error!</td>
<td>An unrecoverable error has occurred.</td>
<td>Press STOP to mute. Record error code. Insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer. Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td>Treatment Alarm: Treatment data error!</td>
<td>An unrecoverable error has occurred.</td>
<td>Press STOP to mute. Record error code. Insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer. Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td>Treatment Alarm: Treatment start error!</td>
<td>An unrecoverable error has occurred.</td>
<td>Press STOP to mute. Record error code. Insert PIN. Clamp lines. Insert patient connector into stay.safe Organizer. Aseptically disconnect from cycler. Turn off cycler and call service.</td>
</tr>
<tr>
<td>Message</td>
<td>Meaning</td>
<td>Action Required</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-------------------------------------------------</td>
<td>----------------------------------------------</td>
</tr>
<tr>
<td>Treatment Warning: Air detected in cassette!</td>
<td>The test failed due to possible air detection in cassette.</td>
<td>Press the <strong>OK</strong> key to retry.</td>
</tr>
<tr>
<td>Treatment Warning: Encoder flag error!</td>
<td>Treatment error.</td>
<td>Press the <strong>OK</strong> key to retry.</td>
</tr>
<tr>
<td>Treatment Warning: Volume error!</td>
<td>Volume is not being pumped although the pumps are moving.</td>
<td>Press the <strong>OK</strong> key to retry.</td>
</tr>
<tr>
<td>Watchdog Alarm: Watchdog timer Error!</td>
<td>An unrecoverable error has occurred.</td>
<td>Record error code. Disconnect yourself from cycler if connected. Turn off cycler and call service.</td>
</tr>
</tbody>
</table>
Different People Drain Differently
Different People Drain Differently

The way your body and your PD catheter extension set respond to your pumping cycler may be different. If you’ve already been doing dialysis as CAPD or on another type of cycler, the amount of time that you need to drain may not be the same as before. Your Liberty Select Cycler is designed to drain at a rate of 100 mL per minute for most Drain cycles. This means that if you program your cycler to drain your peritoneal cavity in a shorter time, the rate would have to be faster and you may have problems with drain alarms.

To help eliminate drain alarms, you and your PD nurse should program your Drain Time to correspond with the amount of fluid you have filled. The graph to the left shows the amount of time in minutes to program into your cycler for your drain times depending on the fill volume that you use.

According to this graph for example, if you have filled with 2000 mL of fluid, you will need 20 minutes to drain.

**Note:** Patients may experience fewer drain complication alarms in Treatment Based than Cycle Based therapy. If you are in Cycle Based therapy and experiencing drain complications, you should discuss changing your therapy with your doctor or PD nurse.
Power Failure

Turn power back ON
Power failure

During a power failure (or if the power switch was turned off), all valves close, the pump stops, and the Touch Screen goes blank.

Note: If the power failure occurs during a Drain, Fill, Dwell, or Pause, your cycler will keep track of your current location and progress.

You may still continue your same treatment if the power returns within eight hours. Depending on how long the power failure lasts, you may wish to disconnect from your cycler.

To disconnect from your cycler:
- Push in the PIN—twist the PIN \( \frac{1}{4} \) turn and then push it in to make sure that a new PIN is inserted in the line
- Close patient line (blue clamp)
- Close catheter extension set clamp
- Carefully disconnect the patient line from your extension set and cap off with a new sterile stay•safe cap

Power restored

When the power is restored to your cycler, turn the Power Switch on the back of your machine ON if it is not already on. Your machine will then go through a series of self-tests before you may choose whether or not to continue with your treatment.

(continued)
Power Fail Detected

Recovery Check in progress...

Please wait

Press STOP to mute

Press STOP to mute
Press the **STOP** key to silence the audible warning. Your cycler will perform a safety systems check. If the Power Fail Recovery is successful, your machine will beep again. Press the **STOP** key to silence the alarm again. Then you may select the **Resume Treatment** button to continue your Drain, Fill, Dwell, or Pause where you left off.

Follow your PD nurse’s power failure instructions to reconnect to your machine if you have disconnected. If you are instructed to, you may continue with your treatment.

---

**Note:** The letter ‘F’ will be displayed next to your treatment details in the “My Records” screen to show a power failure occurred during that treatment. For more information, see “Treatment Details” on page 169.

---

**Recovery failure**

If the Power Fail Recovery test fails, you must select the **Cancel Treatment** button and start a new treatment. Follow the instructions on the screen:

- Push in the PIN—twist the PIN ¼ turn and then push it in to make sure that a new PIN is inserted in the line.
- Close patient line (blue clamp)
- Close catheter extension set clamp
- Use aseptic technique to carefully disconnect the patient line from your extension set and cap off with a new sterile stay-safe cap.
- Check that your catheter/extension set is firmly anchored in place
- Press the **Next** button to continue
- Close all clamps
- When prompted, open the door and remove the cassette
- Restart your entire treatment with fresh dialysate bags and a new cassette

---

**Note:** If your power failure lasts longer than eight hours, you may not resume your treatment.
This Page is Intentionally Blank
Cleaning, Specifications, Index, and Glossary
Cleaning Your Cycler

- Front Panel
- Apparatus
- Outer Door
- Cabinet
- Damp Cloth
- Heater Tray
Cleaning your cycler

The Liberty Select Cycler is not sterile equipment, however, you should keep your Liberty Select Cycler clean and dry at all times. Clean the exterior surface of your machine using a damp cloth and a diluted (1:100) bleach solution or other suitable hospital disinfectant. See adjacent illustration for areas to be cleaned.

Use surface cleaner in small amounts to avoid excess cleaner from entering the interior of your machine. Rinse off cleaning solutions with a water-dampened cloth, especially if a corrosive cleaner such as bleach is used.

If you need to clean your stay•safe organizer, you may wash it with warm soapy water or place it in the top rack of your dishwasher.

Caution: Do not allow any fluid to drip into your cycler or onto the pump module. The cycler must be OFF when you are cleaning it to prevent fluid from entering the pump module. If any fluid gets inside your cycler, you must contact a Fresenius Medical Care Technical Support Representative immediately at 1-800-227-2572. Clean fluid spills immediately to prevent moisture from possibly damaging your machine. Your machine should be placed on a water-tolerant surface, and spills should be cleaned up immediately.

Caution: Do not touch the white pressure sensors in the pump module. Pressing on the pressure sensors may damage them.

Caution: Do not use foaming type cleansers or disinfectants containing alcohol or quaternary ammonium compounds like N-alkyl (C12-C18) dimethyl benzyl ammonium chloride (benzalkonium chloride). These chemicals attack the polycarbonate plastics used in your machine. Read the product labels and follow the instructions. Do not use spray bottles.

Periodically check your Liberty Select Cycler for:
- Damage to the cabinet
- Loose or missing pieces

There is no other preventative maintenance for your cycler. Any service must be performed by an FMC service technician. If your cycler needs service, call an FMC Technical Support Representative at 1-800-227-2572.
Machine Specifications

<table>
<thead>
<tr>
<th>Overall</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>21.5 cm H x 41.28 cm D x 47.63 cm W</td>
</tr>
<tr>
<td>Weight</td>
<td>14.5 ± 1.8 kg (32 ± 4 lbs.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Operating Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
</tr>
<tr>
<td>Rel. Humidity</td>
</tr>
<tr>
<td>Atmospheric Pressure</td>
</tr>
<tr>
<td>Range</td>
</tr>
<tr>
<td>Noise Level</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transportation and Storage Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
</tr>
<tr>
<td>Rel. Humidity</td>
</tr>
<tr>
<td>Atmospheric Pressure</td>
</tr>
<tr>
<td>Range</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Power consumption</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Circuit Breaker</td>
</tr>
<tr>
<td>External Connections</td>
</tr>
<tr>
<td>Clause 6.8.2a, 6.8.2c (Accessories, SIP/SOP connections)</td>
</tr>
<tr>
<td>Accessories equipment connected to the analog and digital interfaces must be certified to the respective IEC standards (i.e. IEC 60950 for data processing equipment and IEC 60601-1 for medical equipment). Furthermore all configurations shall comply with the system standard IEC 60601-1-1. Persons who connect additional equipment to the signal input part or signal output part configure a medical system, and are therefore responsible that the system complies with the requirements of the system standard IEC 60601-1-1. If in doubt, consult the Technical Support department at 1-800-227-2572 or your local representative.</td>
</tr>
</tbody>
</table>
Electromagnetic compatibility

Electrical Safety (UL 60601-1)

<table>
<thead>
<tr>
<th>Protection against electric shock</th>
<th>Type: Class I equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP Rating</td>
<td>IPX0. Meets the requirements of IEC 60601-2-39 (Clause 44.3) regarding degree of protection against ingress of water.</td>
</tr>
<tr>
<td>Mode of Operation</td>
<td>Continuous Operation</td>
</tr>
</tbody>
</table>

Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.

User Interface

<table>
<thead>
<tr>
<th>Language</th>
<th>The operating screens may be set to either English (USA), French (Canada), or Spanish (Mexico)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Touch Screen</td>
<td>LCD display reacts to fingertip pressure</td>
</tr>
<tr>
<td>Keys</td>
<td>Up ▲, Down ▼, STOP, OK</td>
</tr>
</tbody>
</table>

Hardware Settings

| Alarm Loudness                     | 1-20 (50-90 dB) |
| Key Loudness                       | 0-20 |
| Screen Blanking Delay              | 10 minutes |
| Screen Brightness                  | 1-10 |

Solution

| Bag Sizes                          | 2000, 3000, 5000, 6000 (v2.8.4 software or later) mL |
| Initial Fill Volume Range          | 500 to 4000 mL |
| Temperature                        | Fixed at 37°C ±1°C (98.6°F ±1.8°F) |
|                                    | Minimum 25°C bag temperature in order to start treatment |
| Maximum Total Volume               | 30,000 mL |
| Drain Time                         | 20-59 minutes |
| Fill Volume                        | 500-4000 mL |
| Pause Volume                       | 0-4000 mL |
| Last Fill Volume                   | 0-4000 mL |
| Pressures Generated                | -250 mbar to 650 mbar (pressures that can be generated to assist the transfer of dialysate solution to and/or from the peritoneal cavity of the patient) |
**Therapy**

<table>
<thead>
<tr>
<th>Total Therapy Time</th>
<th>10 minutes to 47 hours, 59 minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Fills</td>
<td>1-99 (Exchanges)</td>
</tr>
<tr>
<td>Dwell Time</td>
<td>Variable from 0 minutes to 9 hours, 59 minutes</td>
</tr>
<tr>
<td>Pauses</td>
<td>Variable from 0 to 1 less than # of Fills</td>
</tr>
</tbody>
</table>

**Safety Systems**

<table>
<thead>
<tr>
<th>Air Infusion Protection</th>
<th>Controlled by software: cycler measures air volume in three consecutive strokes coming from source. Any air volume over the set limits (see below) is pumped to drain and M31 (Air Detected in Cassette) warning is displayed.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Air Detector Sensitivity Limits</strong></td>
<td></td>
</tr>
<tr>
<td>Fill: air volume coming from heater bag ≥ 3 mL</td>
<td></td>
</tr>
<tr>
<td>Drain: air volume coming from patient bag ≥ 3 mL</td>
<td></td>
</tr>
<tr>
<td>Dwell: If air volume coming from supply bag ≥ 6 mL</td>
<td></td>
</tr>
<tr>
<td>Dialysate Solution Overfill Protection</td>
<td>Controlled by software: Drain bypass is prevented when overfill is 1.5 or 150% of prescribed Fill (150% = next Fill + amount of previous Fill not yet Drained)</td>
</tr>
<tr>
<td>Over Temperature Protection</td>
<td>Over temperature protected by two thermostats opening at 104°F ± 4°F and 120°F ± 4°F</td>
</tr>
</tbody>
</table>

**Options**

<table>
<thead>
<tr>
<th>Add diurnal UF Language</th>
<th>Last bag option SI Units</th>
<th>Drain exit % Personal data</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB enabled</td>
<td>Additional drain</td>
<td>Additional drain alert</td>
</tr>
</tbody>
</table>

**Accessories**

| IQdrive (P/N 180202) | Liberty Cart (P/N 180080) |
Modem Model MTC-LAT1-B01-US (P/N PK-230)
FCC Part 15 Class B
FCC Part 22, 24, 27
Safety Approval: UL/cUL 60950-1, IEC60950-1

Modem Model MTC-LVW2-B01-US (P/N PK-232)
FCC Part 15 Class B
FCC Part 22, 24, 27
Safety Approval: UL 60950-1, IEC60950-1

Gateway Model SL-06-FS2 (P/N PK-244)
FCC Part 15 Class B
Colocation – FCC 15.247 (Part 15 Subpart C)
Safety Approval: IEC 60950-1, IEC 60601-1-2, 4th edition, IP22 operation

Gateway Model SL-06-FS3 (P/N PK-245)
FCC Part 15 Class B
Colocation – FCC 15.247 (Part 15 Subpart C)
Safety Approval: IEC 60950-1, IEC 60601-1-2, 4th edition, IP22 operation
Manufacturer's EMC Declaration

The Liberty Cycler has been certified to the requirements of ANSI/AAMI/IEC 60601-1-2:2007 within the scope of equipment intended to be used in the home and institutional environments, such as hospitals.

Emissions testing of the machine was performed using the limits for CISPR 11 Group 1, Class B which are specified for equipment intended to be used in homes. However, use of the Liberty Cycler in residential environments may result in interference with some types of broadcast receivers such as televisions and radios. Should such interference occur, it will not permanently affect those receivers and can be reduced or eliminated by repositioning of the receiver or the Liberty Cycler.

In order to assure the safety of the Liberty Cycler as well as other medical devices when used with the Liberty Cycler in the home environment, a detailed technical analysis was performed. This analysis has shown that the emissions levels of the Liberty Cycler are significantly below the immunity requirements of ANSI/AAMI/IEC 60601-1-2 and therefore are not likely to impact the safe operation of other medical devices used within the proximity.

<table>
<thead>
<tr>
<th>Guidance and manufacturer’s declaration – electromagnetic emissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Liberty Cycler is intended for use in the electromagnetic environment specified below. The customer or user of the Liberty Cycler should ensure it is used in such an environment.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emissions test</th>
<th>Compliance</th>
<th>Electromagnetic environment – guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF Emissions CISPR 11</td>
<td>Group 1</td>
<td>The Liberty Cycler uses RF energy only for its internal functions. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.</td>
</tr>
<tr>
<td>RF Emissions CISPR 11</td>
<td>Class B</td>
<td>The Liberty Cycler is suitable for use in all establishments including domestic, and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.</td>
</tr>
<tr>
<td>Harmonic emissions IEC 61000-3-2</td>
<td>Class A</td>
<td></td>
</tr>
<tr>
<td>Voltage fluctuations/ flicker emissions IEC 61000-3-3</td>
<td>Complies</td>
<td></td>
</tr>
<tr>
<td>Immunity test</td>
<td>IEC 60601 test level</td>
<td>Compliance level</td>
</tr>
<tr>
<td>---------------------------------------</td>
<td>----------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>Electrostatic discharge (ESD)</td>
<td>±6 kV contact ±8 kV air</td>
<td>±6 kV contact ±8 kV air</td>
</tr>
<tr>
<td>IEC 61000-4-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electrical fast transient/burst</td>
<td>±2 kV for power supply lines ±1 kV for input/output lines</td>
<td>±2 kV for power supply lines ±1 kV for input/output lines</td>
</tr>
<tr>
<td>IEC 61000-4-4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surge</td>
<td>±1 kV line(s) to line(s) ±2 kV line(s) to earth</td>
<td>±1 kV line(s) to line(s) ±2 kV line(s) to earth</td>
</tr>
<tr>
<td>IEC 61000-4-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voltage Dips, short interruptions, and voltage variation on power supply input lines</td>
<td>&lt;5 % $U_T$ (&gt;95 % dip in $U_T$) for 0.5 cycles 40 % $U_T$ (60 % dip in $U_T$) for 5 cycles 70 % $U_T$ (30 % dip in $U_T$) for 25 cycles &lt;5 % $U_T$ (&gt;95 % dip in $U_T$) for 5 seconds</td>
<td>&lt;5 % $U_T$ (&gt;95 % dip in $U_T$) for 0.5 cycles 40 % $U_T$ (60 % dip in $U_T$) for 5 cycles 70 % $U_T$ (30 % dip in $U_T$) for 25 cycles &lt;5 % $U_T$ (&gt;95 % dip in $U_T$) for 5 seconds</td>
</tr>
<tr>
<td>IEC 61000-4-11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power-Frequency (50/60 Hz) magnetic field</td>
<td>3 A/m</td>
<td>3 A/m</td>
</tr>
<tr>
<td>IEC 61000-4-8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTE $U_T$ is the a.c. mains voltage prior to application of the test level.
<table>
<thead>
<tr>
<th>Immunity test</th>
<th>IEC 60601 test level</th>
<th>Compliance level</th>
<th>Electromagnetic environment – guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conducted RF</td>
<td>IEC 61000-4-6</td>
<td>3 Vrms 150 kHz to 80 MHz</td>
<td>Portable and mobile RF communications equipment should be used no closer to any part of the Liberty Cycler, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</td>
</tr>
<tr>
<td>Radiated RF</td>
<td>IEC 61000-4-3</td>
<td>3 V/m 80 MHz to 2.5 GHz</td>
<td></td>
</tr>
</tbody>
</table>

Recommended separation distance
\[ d = 1.2 \sqrt{P} \]
\[ d = 1.2 \sqrt{P} \text{ 80 MHz to 800 MHz} \]
\[ d = 2.3 \sqrt{P} \text{ 800 MHz to 2.5 GHz} \]
where \( P \) is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and \( d \) is the recommended separation distance in meters (m).

Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, \(^a\) should be less than the compliance level in each frequency range. \(^b\)

Interference may occur in the vicinity of equipment marked with the following symbol: ![Interference symbol]

**NOTE 1** At 80 MHz and 800 MHz, the higher frequency applies.

**NOTE 2** These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

\(^a\) Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the Liberty Cycler is used exceeds the applicable RF compliance level above, the Liberty Cycler should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the Liberty Cycler.

\(^b\) Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.
Recommended separation distances between portable and mobile RF communications equipment and the Liberty Cycler

The Liberty Cycler is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Liberty Cycler can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Liberty Cycler as recommended below, according to the maximum output power of the communications equipment.

<table>
<thead>
<tr>
<th>Rated maximum output power of transmitter (Watts)</th>
<th>Separation distance according to frequency of transmitter (meters)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>150 kHz to 80 MHz</td>
</tr>
<tr>
<td></td>
<td>( d = 1.2 \sqrt{P} )</td>
</tr>
<tr>
<td>0.01</td>
<td>0.12</td>
</tr>
<tr>
<td>0.1</td>
<td>0.38</td>
</tr>
<tr>
<td>1</td>
<td>1.2</td>
</tr>
<tr>
<td>10</td>
<td>3.8</td>
</tr>
<tr>
<td>100</td>
<td>12</td>
</tr>
</tbody>
</table>

For transmitters rated at a maximum output power not listed above, the recommended separation distance \( d \) in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where \( P \) is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

**NOTE 1** At 80 MHz and 800 MHz, the separation distance for the higher frequency applies.

**NOTE 2** These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

**Caution:** In order to prevent potentially hazardous conditions and ensure the safe operation of the Liberty Select Cycler, Radio Frequency Identification (RFID) Equipment must be kept at least 3 meters from the system while in operation.
Product Improvement Policy

Your Liberty Select Cycler machine was designed and built to comply with these product specifications. It is the intention of Fresenius Medical Care to continuously improve products, a process that may result in modifications to specifications or equipment produced in the future. Such product improvements shall not incur any obligation to make similar changes or improvements to equipment previously produced. Where possible, improvements will be made available at reasonable prices. Any such improvement shall not be construed as corrections of any deficiency in previously produced equipment.

Warranty

REFURBISHMENT POLICY

It is the policy of Fresenius USA, Inc. to refurbish medical devices so that they meet the same performance specification as new products. Controlled procedures are used and the refurbishment is carried out at the same manufacturing location under the same quality management system as new medical devices.

REPLACEMENT

Fresenius USA, Inc. sells both new and/or refurbished medical devices. Refurbished medical devices meet the same performance specification as new medical devices (see above) and either may be supplied by the company as warranty replacements.

PERITONEAL CYCLERS

Liberty Select Cyclers that are rented or leased may be either new or refurbished units. History files on new and refurbished medical devices are maintained by Fresenius USA, Inc. at its Concord, CA manufacturing facility.

Preventive maintenance of peritoneal cyclers is not required. Service is performed at the factory only. Cyclers requiring service or investigation are replaced, generally with refurbished equipment, so that investigation and/or service can be performed at the factory. No user service records are required.
In cases where the Liberty Select Cycler is sold, SALE of the machine or parts described or referenced herein is expressly conditioned upon the terms and conditions set forth below. Any additional or different terms or conditions set forth by the Purchaser to Fresenius Medical Care, Inc., (herein called “the Company”) shall not be effective or binding, and the terms set forth herein shall not be modified or amended, unless assented to in writing by an authorized official of the Company located in Waltham, Massachusetts.

LIMITED WARRANTY: The Company warrants to the Purchaser that the equipment delivered is free from defects in material or workmanship for the periods specified below, provided the equipment is used and maintained in accordance with the original manufacturer’s operating instructions:

A. Mainframe chassis, and electronic components, lamps, etc. shall be warranted for ninety (90) days from the date of initial installation or one hundred and eighty (180) days from the shipment, whichever occurs first.

B. Consumables shall not be warranted.

The Company will repair or replace, at its option, using new or reconditioned parts and/or assemblies, any parts subject to this warranty which are proven defective in materials or workmanship. Such repair and replacement will be made without cost to the Purchaser, and the Company reserves the right to determine the location at which the repair or replacement will be accomplished. The Warranty does not apply to any equipment which is misused, abused, neglected, tampered with, damaged by accident, flood, fire, or other hazard, subjected to abnormal or unusual electric or fluid stress, improperly installed or operated, or not maintained in accordance with the routine maintenance schedule set forth in the operating manual for the equipment. Routine maintenance is not covered under warranty. Modifications, alterations, installation, and service by other than a FRESENIUS MEDICAL CARE authorized representative may void the warranty.
WARRANTIES APPLICABLE TO EQUIPMENT EXTEND ONLY TO THE PURCHASER, AND ARE NOT ASSIGNABLE OR TRANSFERABLE, AND SHALL NOT APPLY TO AUXILIARY EQUIPMENT, DISPOSABLE ACCESSORIES, OR LIGHT SOURCES. THE FOREGOING WARRANTY SHALL BE IN LIEU OF ANY OTHER WARRANTIES, EXPRESSED, IMPLIED, OR STATUTORY, RESPECTING THE EQUIPMENT OR ANY PARTS OR COMPONENTS THEREOF, AND THE COMPANY MAKES NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE PURCHASER’S SOLE AND EXCLUSIVE REMEDY IN CONTRACT, TORT, OR UNDER ANY OTHER THEORY AGAINST THE COMPANY RESPECTING THE EQUIPMENT AND ITS USE SHALL BE THE REPLACEMENT OR REPAIR OF THE EQUIPMENT AND ITS PARTS AS DESCRIBED ABOVE, AND NO OTHER REMEDY (INCLUDING, WITHOUT LIMITATION, CONSEQUENTIAL DAMAGES) SHALL BE AVAILABLE TO THE PURCHASER. The Company shall have no further obligation or liability with respect to the equipment or its sale, operation and use, and the Company neither assumes, nor authorizes the assumption of, any obligation or liability in connection with such equipment.

TERMS: Net 30 days, FOB shipping point plus sales and similar taxes. The Company’s prices do not include sales, use, excise, or similar taxes. Consequently, in addition to the prices specified herein, the amount of any present or future sales, use, excise, or other similar tax applicable to the or use of the equipment hereunder shall be paid by the Purchaser, or in lieu thereof, the Purchaser shall provide the Company with a tax exemption certificate acceptable to the taxing authorities. Purchase price will include operation training of Purchaser’s personnel when a complete system is purchased. Installation for replacement parts will be charged to the Purchaser on a time, material, and expense basis unless covered under the limited warranty or a service contract.

SHIPPING: The Company will use its own judgment in determining the most effective method of shipping unless otherwise specified by the purchaser.
For additional servicing and information contact:

Fresenius Medical Care  (800) 227-2572
Attention: Service Department
4040 Nelson Ave
Concord, CA 94520

The Liberty Select Cycler is manufactured by:

Fresenius USA, Inc.
4040 Nelson Ave
Concord, CA 94520
Glossary

**Abdomen**—Area of your body below the chest and above the hips, also called the belly.

**Additional Drain**—An optional drain at the end of treatment that is planned ahead of time.

**Ambulatory**—Moving or walking around.

**APD**—Abbreviation for Automated Peritoneal Dialysis, the use of a machine for peritoneal dialysis.

**Aseptic Technique**—A series of steps used to keep an area as germ free as possible, including putting on a mask, thoroughly washing and drying your hands, and remembering which parts of your supplies are sterile.

**Button**—Certain identified sites on the Touch Screen that, when touched, will cause a specific action.

**CAPD**—Abbreviation for ‘Continuous Ambulatory Peritoneal Dialysis.’ CAPD requires a manual exchange.

**CCPD**—Abbreviation for ‘Continuous Cycling Peritoneal Dialysis.’ CCPD is a continuous therapy with exchanges occurring throughout the night and sometimes during the day. CCPD requires a cycler.

**CCPD Volume**—The amount of dialysate delivered during exchanges.

**Clean**—You have removed most, but not all of the germs. Good hand washing makes your hands clean, not sterile. Your work surface is clean, not sterile.

**Cone**—Plug at the inside end of a dialysate solution bag. Breaking the cone opens the bag and allows the flow of solution to the connected tubing.

**CRC**—Abbreviation for Cyclic Redundancy Check. CRC is an error-detecting code used to check the integrity of the data.

**Dextrose (Glucose)**—A form of sugar used in dialysate to remove fluid.

**Diastolic Pressure**—The lower blood pressure number, it describes the blood’s pressure on arteries just before the next heartbeat.

**Dialysate**—Dialysis solution used to clear waste fluid from your body.
Diurnal—Daytime, opposite of nocturnal.

Drain—Process of emptying your peritoneal cavity of dialysate which carries waste and fluid out of the body.

Drain Exit %—The minimum volume requirement for completing a drain.

Drain Time—The amount of time available to drain your peritoneal cavity of used dialysate.

Dry Day—Term for having very little fluid left in your abdomen as a result of no programmed Last Fill for your treatment.

Dwell—Stage of peritoneal dialysis treatment in which the dialysate remains in your peritoneal cavity for a specified amount of time. The dwell time is the time allowed for actual dialysis to take place during each exchange.

Effluent—The used dialysate that your cycler drains out of you.

ESRD—Abbreviation for ‘End Stage Renal Disease.’

Exchange—Act of replacing the dialysate in your peritoneal cavity. An exchange or cycle consists of three steps: Fill, Dwell, and Drain.

Fibrin—White protein strands that are sometimes found in your drained dialysate.

Flush—Procedure to remove air and potential contaminates from bag line and connections.

Fill—Process of filling your peritoneal cavity with fresh dialysate.

Fill Volume—The prescribed amount of dialysate to fill your peritoneal cavity during an exchange.

Fill Time—The amount of time available to fill your peritoneal cavity with fresh dialysate.

Increased Intraperitoneal Volume (IIPV)—see Overfill

IPD—Abbreviation for ‘Intermittent Peritoneal Dialysis.’ Exchanges usually take place at night with a dry day.

Keys—Located on the Control Panel, keys work outside the Touch Screen to scroll, confirm selections, and stop functions.

Last Bag Fill Volume—This is the volume of dialysate for the last fill. It is in the bag connected to the green clamp line.

Last Fill Volume—The amount of dialysate left in your peritoneal cavity before disconnecting from your machine.
MR—Refers to MRI, Magnetic Resonance Imaging.

Overfill—Also known as Increased intraperitoneal volume (IIPV) is when you have too much fluid in your abdomen. IIPV/overfill may result in serious injury or death from conditions such as: abdominal wall and/or diaphragmatic hernias, hydrothorax, heart problems including chest pain and heart failure, high blood pressure, pulmonary edema, decreased pulmonary function and pericardial effusion. Patients and caregivers should watch for the potential signs of IIPV. These include: difficulty breathing; vomiting or spitting up; feeling full, bloated, or overfilled after treatment; abdominal pain or discomfort; expanded or tense abdomen; chest pain, increased blood pressure, change in mental status, and leakage of fluid from the PD catheter exit site.

Parameter-Button—a button on the Touch Screen that displays the changeable value it controls.

Pause—an exchange that allows you to dwell while either connected to or disconnected from your cycler. It differs from other Dwells because it is not a timed function, meaning you may pause for as long as you like.

Pause Volume—the amount of dialysate delivered during the Pause portion of the exchanges.

PD—Abbreviation for ‘Peritoneal Dialysis.’

PD+—Abbreviation for ‘Peritoneal Dialysis Plus,’ a therapy that features pauses prior to nighttime therapy. See Pause for more information.

Peritoneal Cavity—an area of your body containing your stomach, liver, intestines, spleen, and pancreas. See also Abdomen.

Peritoneal Dialysis—the procedure carried out by your body that pulls the waste products and excess water from your blood stream.

Peritoneum—a smooth semi-permeable membrane which lines the cavity of the abdomen covering internal organs.

Pneumatic Pressure—Compressed air used by the cycler during its operation.

Prime—Procedure to remove air from the tubing line that connects to the patient’s catheter extension set.

Screen-button—Any of the buttons located in the Status Bar on the Touch Screen. Touching one of these buttons will display its screen.
SI units—Abbreviation for ‘System, International.’ This is a set of measuring standards that uses the metric system including kilograms (kg), Celsius degrees (°C), and millimole per liter (mmol/L). The Liberty Select Cycler can display values in either SI units or US standard units (lbs., °F, or mg/dL).

STAT drain—An unplanned drain initiated by the user.

Status Bar—Top section of the Touch Screen that shows your machine’s operational mode. It is color coded to show your machine’s status. The Status Bar also alerts the operator to any warning or alarm event.

Sterile—Sterile means completely free of germs. Some of the supplies are packaged to keep them sterile. Some parts of the supplies must remain sterile after opening the package.

Systolic pressure—The higher blood pressure number, it is the blood’s pressure on arteries during a heartbeat.

Thermistor—A type of temperature sensor that is used to measure temperature.

Tidal fill volume—The amount of dialysate to fill your peritoneal cavity during a Tidal therapy exchange. This amount is typically less than CCPD and IPD volumes.

Tidal drain volume—The amount of dialysate that is drained during each Tidal Exchange. Drain 0 and the last Drain of the treatment will drain completely.

TPD—Abbreviation for ‘Tidal Peritoneal Dialysis.’

Total sleep time/Total therapy time—The estimated sum of all Drain, Fill, and Dwell time during a treatment.

Total Volume—The total amount of dialysate you need for your treatment.

UF—Abbreviation for ‘Ultrafiltration.’

Ultrafiltration—Ultrafiltration is the process of drawing off excess fluid from the bloodstream during treatment.

Unrecoverable Error—Alarms in which the Liberty Select Cycler Display Status Bar turns red and cannot be resolved; contact a Fresenius Medical Care Technical Support Representative at 1-800-227-2572.

Urea—Dissolved protein waste product.

USB—Abbreviation for ‘Universal Serial Bus.’ This is a type of connection used to transfer data. The IQdrive connects to the USB port on the back of your Liberty Select Cycler.
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