

Liberty® Handi-Guide

A Patient's Reference to the Most Commonly
Asked Questions About the Liberty Cyclor



Liberty®
united with stay•safe®

This information is not intended to replace the advice or training from your physician or PD Nurse. Please refer to the Instructions For Use (IFU) for detailed information, on device description, instructions, contraindications, warnings and precautions.

Table of Contents

INTRODUCTION	1
TREATMENT AND CYCLE BASED TREATMENTS	2
CYCLER SET-UP TIPS	3
OPERATION QUESTIONS	6
STAY•SAFE [®] ORGANIZER	10
ALARMS	11
WARNING MESSAGES	12
DRAIN COMPLICATIONS	13
DIFFERENT PEOPLE DRAIN DIFFERENTLY	14
POWER FAILURE	15
BYPASSING	17
OVERFILL	18
DISCONNECTING	19
CLEANING	20
OPTIONS	21
THERAPY SETTINGS	24



Introduction to Liberty Cyclor

This Handi-Guide is designed to answer many of the questions that you may have when you start using your Liberty cyclor at home or whenever you may need a quick reference guide.

This guide is not intended to take the place of the Liberty Cyclor User's Guide (P/N 480088) where you will find more detailed information about using your cyclor.

Another important and helpful reference is the Liberty Initiating Treatment Procedure Card (P/N 480070). If we haven't addressed your concerns or if you have any other questions, you can always call your PD Nurse or Doctor at your dialysis unit or our Technical Support line at 800-227-2572.

This information is not intended to replace the advice or training from your PD Nurse or Doctor. Please refer to your Liberty Cyclor User's Guide for detailed information on device description, instructions, contraindications, warnings and precautions.

This document is for software version 2.8.5.



Treatment Based and Cycle Based Treatments

The Liberty cycler may be programmed to deliver Treatment Based or Cycle Based therapy.

TREATMENT BASED means that your total treatment time will be programmed into your cycler. Your cycler will deliver your treatment in the specified amount of time. This method is useful for people that need to finish treatment by a certain time in the mornings in order to meet other obligations such as, going to work.

CYCLE BASED means the prescribed dwell time will elapse before solution is automatically drained. This ensures that the time prescribed to filter waste and remove excess fluid is not shortened.

NOTE: Depending on your treatment results, your Doctor or PD Nurse may switch you from Treatment Based to Cycle Based or vice versa. 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.

How do I load the cassette?

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

Open the cassette door by pressing the latch on top of the door.

With the plastic domes facing outward, insert the top portion of the cassette then snap the lower portion into place.

Look for kinked tubing and be sure all kinks are straightened out before closing the cassette door.

Close the cassette door securely.

NOTE: The cassette cannot be inserted unless your cycler is prompting insert cassette.

If you attempt to insert it at any other time, the cassette will not snap into place and the door will not close.

CAUTION: The cassette and film can be compromised if mishandled or misused. Improper loading of the Liberty cassette into the Liberty cycler could cause damage to the flexible film. Ensure the cassette is seated under both upper guide pins, is flush with the back plate, and is held by the lower catch, before closing the cassette door.

How many solution bags can be placed on the heater tray?

To decrease the chance of contamination, solution bags should be on a flat surface with the ports facing you while connecting the tubing lines. Do not place more than two solution bags at one time on top of the heater tray during the connection process. Make sure that the heater bag is the only bag on the heater tray before going to the next step. Connect the red clamp line to the heater bag, the white clamp lines to the supply bags, and the green clamp line to the last bag option, if prescribed.

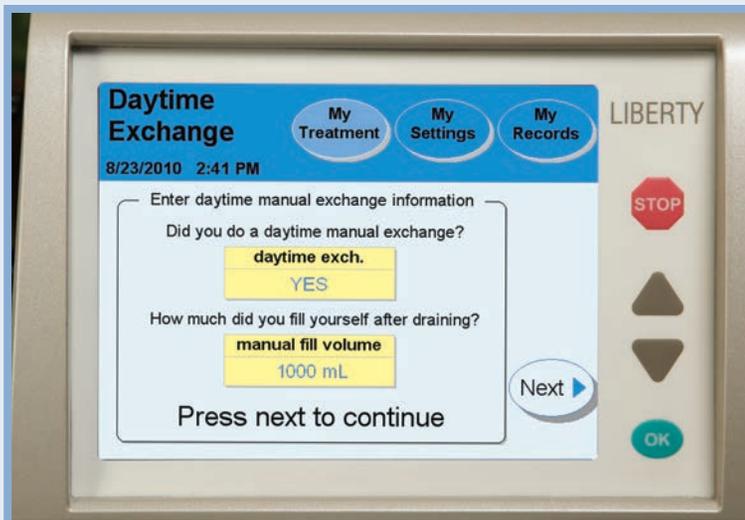
Once connected, the supply bags must be removed from the heater tray. The heater bag with the red line clamp must then be positioned properly on the heater tray covering the silver bag sensor.

Make sure the cones are broken completely. It is okay if the cones float up into the bag. The cones cannot go through the tubing or get into your body.

- 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 are broken completely. A white guide should be visible
- You may use the Handi-Tool to assist you in breaking the cones.

Why does the Liberty cycler ask for information about a daytime manual exchange?

If your doctor has told you to do an exchange using a manual CAPD system in addition to exchanges automatically delivered by the Liberty cycler, you will need to enter the fill volume for this manual exchange into the Liberty cycler before initiating Drain 0. This is important because the Liberty cycler must know how much drain volume to expect in order to ensure that Drain 0 drains enough solution. Making sure that drain volumes are sufficient is essential to preventing an overflow situation.



What if the dwell time is shorter than expected?

In Treatment Based mode, your cyclor will adjust the dwell time based on the total time programmed, the number of cycles, as well as the time it takes for each drain and fill. If a drain or fill cycle takes longer than estimated by your cyclor, the dwell time will be shortened to make sure you end treatment on time.

In Cycle Based mode, your dwell time will not be shortened.

What if the alarm volume is too soft or too loud?

When you receive your Liberty cyclor, the alarm volume is preset to 5, with 1 being the lowest volume and 20 being the loudest. You may change this setting by selecting the My Settings screen then choosing the Hardware tab. On this screen choose the alarm loudness key. It will turn orange when you touch it. You can now adjust the volume. Push the up or down arrow keys to change the setting. Press **OK** to save your changed settings. A good way to determine the best volume for you is to set your cyclor in a quiet room, as it is when you sleep. If you wear hearing aides, remove them before setting the volume.

How do I use the IQdrive™ for the first time or with a new prescription?

Put in the rectangular metal end of the IQdrive into the slot in the upper left back panel of the Liberty cyclor. Turn the Liberty cyclor on. A small light will appear on the IQdrive letting you know that it is correctly inserted. The drive is designed to fit one way. Be sure it fits snugly.

NOTE: Once you have inserted the IQdrive properly, the screen should display a message asking if you want to program the cyclor with the new IQdrive settings. If this message is NOT displayed, call your PD nurse. You may be asked to access My Settings/Options tab and select USB enabled to YES.



Operation

How do I use the IQdrive for the first time or with a new prescription?

You may choose to Accept or Reject the new settings or view Current Settings.

If you choose to view the Current Settings, the display will show the patient settings on your cyclor. From here you have the option to press the IQdrive settings button which will take you back to the previous screen. By pressing the **Accept** button, the settings on the IQdrive will overwrite the settings on your cyclor. By pressing the **Reject** button, the current cyclor settings will be retained and the IQdrive settings will be ignored. If you notice a problem with your prescription on the IQdrive, you can choose to reject it. After selecting **Accept** or **Reject**, your cyclor will move to the Ready screen and you can start treatment.



When bringing your IQdrive to your PD Nurse, keep it clean and dry. Put it in a plastic bag. Do not leave it in your car with extreme heat, do not leave it in the bottom of your purse, and keep it away from magnets. Handle with care.

When and how do I put the stay•safe PIN connector on the blue patient line into the stay•safe organizer?

- After inserting your cassette, you should place the stay•safe PIN connector at the end of the tubing set patient connector into the organizer clip.

NOTE: See Fig. I showing use with more than one stay•safe PIN connector.

- Roll the connector to the right side to fully position it in the clip. Press the tubing into the Flush channel of the organizer.

NOTE: If you need to clean your stay•safe organizer, it can be washed with warm soapy water or can be placed in the top rack of your dishwasher.



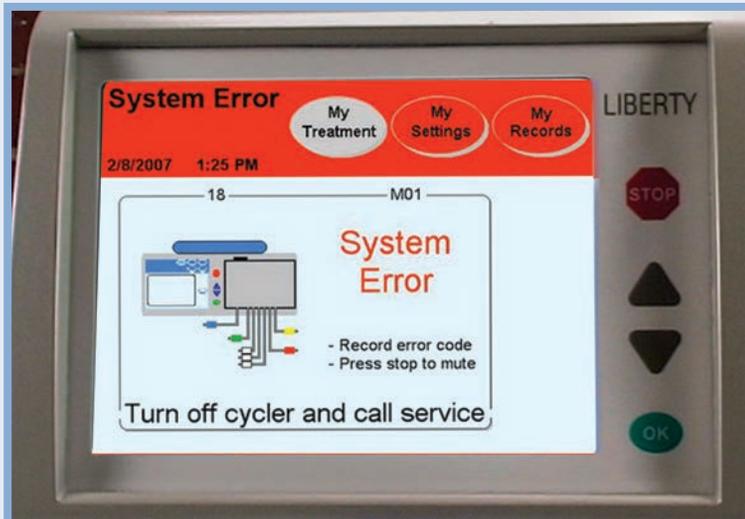
Do not push in the stay•safe PIN Connector until the end of the treatment, unless prompted to disconnect for a pause.

Fig. I

What do I do when I get an alarm?

Red status bar alarms indicate a problem that must be reported to the Technical Support representative at 800-227-2572. Alarms cannot be reset and require you to turn off your cyclor. Press the **STOP** key to silence your cyclor, then write down the error message and sub-code on the top of the main screen underneath the red status bar before you turn off your cyclor. You will also be asked for your Liberty cyclor serial number and software version, which is found on the top of your cyclor.

For a complete listing of alarms refer to the Warnings & Alarms section in the Liberty Cyclor User's Guide.



What do I do when I get a warning?

Orange status bar warnings alert you to conditions that need your attention.

During a warning your cyclor beeps to notify you of the warning and the status bar turns to orange. Press the **STOP** key to mute the beeping. Follow the instructions on the screen to troubleshoot the warning. The screen will indicate Press **OK** to retry. If you cannot clear the warning after a few attempts, call Technical Support at 800-227-2572 for assistance.



What should I do if I have a drain complication?

If the Liberty cycler displays a warning for Drain Complication the following are suggestions for troubleshooting:

- Check that your catheter extension set is not kinked and the clamp is open.
- Check for fibrin or clots in the drain line. If so, contact your PD Nurse for instructions.
- Change positions to move fluid within your abdomen.
- Be sure you have not rolled on the patient line.
- Are you constipated? If so, contact your PD Nurse for instructions.
- Check that your catheter extension set is adequately secured.
- If you are unable to clear Drain Complication, contact your PD Nurse for instructions.
- A Completely or partially pushed in PIN can result in a drain complication alarm.

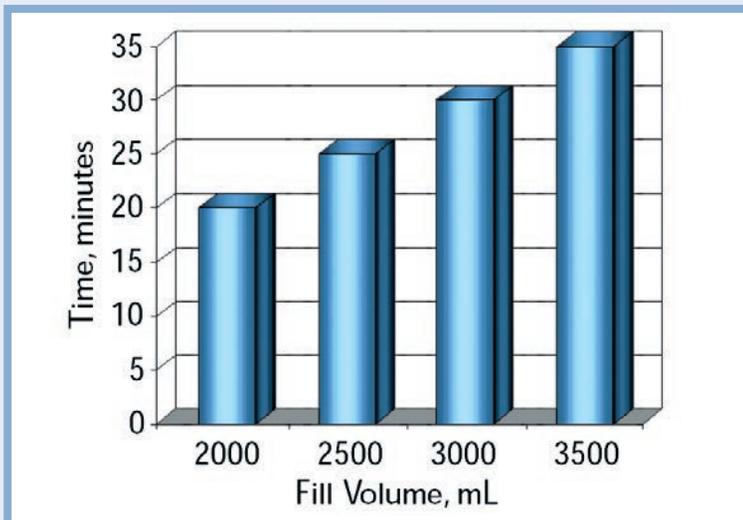
NOTE: Your cycler will check midway through the drain cycle to determine if approximately 35% of the previous fill has drained. If not, it will beep to alert you of low drain rate. At the end of drain, your cycler will again alert you if 70% of the previous fill has not drained.

Be sure the position of your cycler is no more than 12 inches above or below the surface of your bed. If your sleep is interrupted due to drain complications, speak to your doctor or PD nurse about trying Treatment Based therapies.

How long will I take to drain?

Drain time can be affected by your catheter, your position, and several other factors. If drain takes longer than expected or programmed, the screen will display a drain complication.

If your cycler is programmed to deliver Cycle Based therapy, you or your PD Nurse should program drain time to correspond to your fill volume. The graph below provides a guideline for drain time based on fill volumes. The Liberty cycler will not allow a drain time to be programmed that is less than the programmed fill volume divided by 100 mL. For example, if your fill volume is 2500 mL, the Liberty cycler will not allow a drain time of less than 25 minutes to be programmed. The default time is 20 minutes.



What happens when there is a power failure?

- All lines will automatically close.
- The pump will stop.
- The touch screen will go blank.

If the power failure occurs after you have started your treatment, the treatment settings will be stored and your treatment will restart where you left off if the power comes back on within 8 hours. An F will show up in your records indicating a power failure occurred during that treatment.

NOTE: Your Liberty cyclor must be plugged into a 120V three-prong power outlet.

Warning! If you are unable to insert the plug into an outlet, contact Technical Support at 800-227-2572. Do not alter the power cord. Your machine must be plugged directly into the electrical outlet; do not use extension cords or power strips (surge protectors).

What happens when power is restored?

- Your cyclor will go through a power fail recovery process if power fail happened during drain, fill, dwell or pause.
- An audible beep will be heard. Press **STOP** to mute the warning.
- Your cyclor will perform a safety check. The status bar will state Power Fail Recovery and the screen will read Power Fail Detected Recovery Check in progress.
- If your cyclor passes the safety check it will beep again. Press **STOP** to mute and then you may select Resume Treatment.
- If your cyclor does not pass the safety check, select Cancel Treatment and follow the prompts on the screen to end this treatment. Use new supplies for a new treatment.



NOTE: If the power has been off for more than 8 hours do NOT resume treatment. Discuss with your PD Nurse any special instructions in case of a power failure.

Why can't I bypass during my treatment?

If you attempt to bypass when it is unsafe to do so, a message will be displayed on the screen reading bypass not allowed. Bypass is not allowed during:

- Drain: if the patient has not drained enough that overflow can occur after the next fill
- Dwell: for 1 to 2 minutes at the beginning of Dwell; the heater bag is being emptied or refilled
- Pause: cannot bypass; must wait for the next button to appear in order to continue to next phase

Warning! You must discuss the risks associated with bypassing, or skipping, any phase of treatment with your doctor or PD nurse. Bypassing may decrease the amount of treatment you receive. You should not bypass Drain 0 unless you have a dry day.

NOTE: Fill can bypass anytime

What is overfill and how do I prevent it?

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

If you experience any of these symptoms, you may perform an immediate 'STAT' drain anytime during fill, pause or dwell, if you feel uncomfortable or suspect an overfill situation.

- Press the **STOP** key.
- Press **STAT drain** button on right side of screen. The next screen displays 'Are you sure you want to do a STAT drain?'
- Confirm that you want to initiate an immediate drain by pressing **STAT drain**.
- Always let your doctor or PD nurse know that you performed a STAT drain during your treatment.

How do I disconnect from my Liberty cyclor?

- Mask and wash or sanitize hands as instructed by your PD nurse.
- Twist the blue stay•safe 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.

How do I clean my Liberty cyclor?

Keep your Liberty cyclor clean and dry at all times. Clean the exterior surface of your machine as needed using a damp cloth and a dilute (1:100) bleach solution. After wiping your machine with the damp bleach cloth, re-wipe with a water-dampened cloth.

CAUTION: Do not allow any fluid to drip into your cyclor or onto the pump module. Your cyclor must be OFF when you are cleaning it to prevent fluid from entering the pump module. If any fluid gets inside your cyclor, you must contact Technical Support immediately at 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. Do not use spray bottles.

Periodically check your Liberty cyclor for:

- Damage to the cabinet
- Loose or missing pieces

There is no other preventive maintenance for your cyclor. Any service must be performed by a Fresenius Medical Care service technician. If your cyclor needs service, call Technical Support at 800-227-2572.

What are my optional settings on the Liberty cyclor?

The following settings are programmed under the Options tab on the My Settings screen.

- **Add Diurnal UF** – Your PD Nurse will tell you whether or not to select YES for this option. YES includes the ultrafiltration (UF) from drain 0 to be part of the net UF.
- **Language** – Choose from English, Spanish or French.
- **Last Bag Option** – If this option is selected, your cyclor will fill you exclusively from the Last Bag option (green clamp) for your last Fill. During the last dwell your cyclor will empty the heater bag, fill it from the last bag, warm the fluid and deliver this specific solution for your last fill. 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.

What are my optional settings on the Liberty cyclor?

- **SI units** – You choose YES or NO

If you choose YES:

Weight - Kg

Blood Glucose - mmol/L

Temperature - °C

If you choose NO:

Weight - lb

Blood Glucose - mg/dL

Temperature - °F



- **Personal data** – If you choose YES your cyclor will display–Your personal health data–at the end of the treatment. Be sure to include your dextrose concentrations.
- **USB enabled** – If you select YES for this option, your cyclor will automatically look for the USB drive when your cyclor is turned on. If the USB drive is not inserted into your cyclor when you turn the machine on, it will display a message letting you know it is not in place. You can then insert it and your cyclor will detect that the USB is active. Your treatment information will be saved on the USB drive.

What are my optional hardware settings on the Liberty cyclor?

All of the following settings under the Hardware tab of the My Settings page should be entered before you start your first treatment.

- **Alarm loudness** – Can be set between 1 (soft) and 20 (loud)
- **Key loudness** – Can be set between 0 (off) and 20 (loud)
- **Date format** – Can be set as either MM/DD/YYYY or DD/MM/YYYY
- **Date** – Your cyclor arrives with the date already set.
- **Time format** – Can be set as either 12-hour (AM/PM) or 24-hour time
- **Time** – Your cyclor arrives with the date set for the Pacific Standard time zone. Reset the time to your specific time zone by following the directions in your Liberty Cyclor User's Guide or on page 25 of this Handi Guide.
- **Screen blanking** – This option, when set to YES causes the touch screen to go dark after 10 minutes of inactivity. It stays dark until you touch the screen or a key. If there is an alarm, simply touch the screen to bring up the picture. If this option is set to NO, the screen remains lit at the brightness level you selected.
- **Screen brightness** – Can be set between 1 (very dim) and 10 (brightest)

What are the therapy ranges for the Liberty cyclor?

- **Total therapy time** – Programmable up to 47 hours and 59 minutes
- **Fill volume range** – 500 mL to 4000 mL (pause and last fill volumes may be 0)
- **Dwell time** – As much as 9 hours and 59 minutes
- **Bag sizes allowed** – 2000 mL, 3000 mL, 5000 mL or 6000 mL (the heater bag must hold the first fill volume plus 1000 mL)
- **Number of exchanges** – One to 99
- **Number of pauses** – You may or may not be prescribed pauses. If you are, your PD Nurse will instruct you on the number of pauses to enter.
- **Maximum total volume** – Each treatment can deliver up to 30,000 mL.
- **Drain Time** – Lowest programmable drain time in minutes = fill volume divided by 100; maximum drain time = 59 minutes
- **Patient Weight** – The dry weight may be set between 44 lbs (20 kgs) up to 880 lbs (400 kgs).
- **Daytime manual exchange** – 0 to 4000 mL

How do I change the time on my Liberty cyclor?

When your machine arrives from the factory, it is pre-set to Pacific time. You need to reset this to your specific time zone.

Once you start your treatment, you cannot change the time. Therefore, you must make the change before you begin or wait until you are finished.

To change the time:

- Touch the **My Settings** button and select the Hardware tab.
- Touch the yellow **time format** box. It will turn orange.
- Use the **Up/Down** arrow keys to set it to AM/PM or 24-hour.
- Press **OK**.
- Now, touch the yellow **time** box. It will turn orange.
- Use the **Up/Down** arrow keys to set the hour. Press **OK**. Press the **Up/Down** arrow keys again to set the minutes. Press **OK**. The box will now turn yellow indicating that you have set the time.

What personal health data do I enter into the Liberty cyclor?

- **Your Personal Health Data** – When you select YES under your personal data options for this setting you will be required to fill in the following data:
 - How much of each type of solution was set up
 - Last bag type (if different)
 - Blood glucose (sugar)
 - Weight
 - Pulse
 - Blood pressure
 - Temperature



**FRESENIUS
MEDICAL CARE**

RENAL TECHNOLOGIES

Fresenius Renal Technologies, a division of Fresenius Medical Care North America
920 Winter Street • Waltham, MA • 02451
For all inquiries or questions, please contact Technical Services at 800-227-2572.

Instructions for Use: The Liberty cyclor is intended for acute and chronic peritoneal dialysis. The stay•safe patient connectors are intended for use with a peritoneal cyclor for drainage and infusion of PD solution during peritoneal dialysis exchanges. The stay•safe patient connectors are indicated for acute and chronic peritoneal dialysis.

Caution: Federal (US) law restricts these devices to sale by or on the order of a physician.

Note: Read the Instructions for Use for safe and proper use of these devices. For a complete description of hazards, contraindications, side effects and precautions, see full package labeling at www.fmcna.com.