FLUIDOTHERAPY PREVENTATIVE MAINTENANCE
of D-SERIES UNITS

The Fluidotherapy device will give many years of trouble free service if it is properly cared for. The following schedule summarizes the maintenance activities of the average Fluidotherapy unit. The frequencies given for each group of items are considered to be the minimum necessary to maintain proper operation. You may choose to complete these activities more often if you want to.

DAILY:

1. Each morning, before the unit is put into service, take a soft bristle brush and clean the side inlets. These inlets should always be kept clean whenever the unit is being run. Never clean the inlets while the unit is running. Doing this could cause fine particles to be drawn through the screens into the motors decreasing the life of the unit's distributor. Leaving these inlets clogged can cause the unit to overheat thereby reducing motor and distributor life.

2. Verify that all arm and leg sleeves are secured properly in their opening(s). Open each arm sleeve on the 115 units and make sure that the sleeve is held firmly in place to the inner and outer tubs. The trimlock that holds the sleeves in place must be positioned such that the ends are at the top when installed. The trimlock should be installed tightly over the sleeve material and seal rings. If the trimlock can be easily rotated or pulled from the ring or outer tub, it will need to be adjusted or replaced. To adjust the trimlock, remove it from the unit. Using a pair of pliers, crimp along the trimlock every inch or so to retighten it.

3. Check the condition of all of the sleeves. Small tears or pulls in the stitching can provide a route for media (Cellex) to leak out of the unit onto the floor. In
some cases (115 models), media can actually leak into the area between the inner and outer tub. This media could be drawn into the motors past the heater and then be embedded in the bottom side of the distributor shortening its useful life.

4. Check the level of the media in your unit. The normal level is about 1 inch above to 1 inch below the rim of the hand (side) inlet(s). One normal characteristic of the media is that, over time, it will break down into smaller particles and the level will very gradually decrease. Additional media is available from your local Henley Healthcare dealer. If you note a gradual decrease of media of more than 2 inches, pull the unit out of service for further inspection just to be sure that you don't have a media leak. If you note a sudden drop of the media level and/or decreased or no fluidization, pull the unit out of service because your unit may have a media leak. A prolonged media leak could fill the internal portion of your unit with media rendering the unit inoperable and leading to very costly repairs.

**Monthly:**

1. Remove the front panel of your unit by loosening the 6 front panel screws. Visually inspect the interior of the unit for any debris or media (Cellex) that may have migrated to this area. If an excess of media is found, do not operate the device until the source of media leakage has been determined and corrected. On 110 and 210 units remove the front panel and then remove the motor(s). Once the motor is pulled out of position, look down into the heater plenum area for any debris or media accumulation. If an excess of material is found, do not operate the unit until the leakage point is determined and corrected.

2. Start the unit in treatment mode and note the level of fluidization. Does the unit fluidize well at 50% (default) air speed? If not, how high do you need to set the air speed to get the unit to Fluidize? If the air speed has to be set above 85% to get the unit to fluidize, you may have a clogged distributor. Contact ERS Biomedical Technical Services for further testing instructions.

**Quarterly:  DO Not run step one.**

1. Run the unit through a performance test. This test should be run with the unit in a room that is between 65 and 85 degrees. With the unit at ambient (room) temperature, place the unit into cal mode by unplugging it from the ac power, press and hold the start and stop buttons simultaneously and plug it back in. When the unit powers up, release the start then the stop button. The unit should now be displaying "CAL". Press the mode change button until the unit displays "PERF". Press the start button and the unit will begin the test. The unit will heat up to 120 and then cool down to 105. Once it hits 105 it will continue to cool until it reaches its minimum temperature. Once it reaches its minimum temp, the unit will shut down and the display will show "HIuP". NOTE: This test may take an
hour or more to run. Press the mode button until the unit reads "Lo", °F. After approximately 3 seconds, the display will begin to alternate between "Lo", °F" and the minimum temperature the unit attained. This temperature should be 105 degrees Fahrenheit or less. If the temperature is above 105, the unit distributor may be in the process of clogging. Call Henley Healthcare Technical Services for more information. If the temperature is 105 or less proceed to step 2 below.

2. Place the unit into Burn in mode. If the unit is still in "PErF" mode from step 1, simply press the mode change button until "Burn" is displayed. If starting with this test, place the unit into "CAL" mode using the method described in Step 1 above. Once in "CAL" mode, press the change mode button until the word Burn is displayed. Press the start button and the unit will run continuously and will heat to and regulate at 115 degrees. Place the probe of a calibrated digital thermometer into the bed of the unit. The temperature sensor is located about 1/2 inch below the top screen in about the center of the bed. Get the thermometer probe as close as you can, but be very careful not to poke through the distributor!!! The unit display and the calibrated digital thermometer should read within 4 degrees of each other. If the unit is unable to achieve this level of accuracy, call ERS Biomedical Technical Services for more information.

**Yearly:**

ERS/DJO recommends that motors be replaced after 500 hours of run time. We do not recommend changing only the brushes since the new brushes will wear at an accelerated rate causing the distributor to be clogged prematurely.

**5 Years:**

ERS Biomedical recommends that all Fluidotherapy units be inspected by an authorized factory representative every five years. Call ERS Biomedical Technical Services for more information.

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