LIMITED WARRANTY PLAN

Ross Products Division of Abbott Laboratories warrants the
Fleischauer® Medical Transport Pump against defects in material
and workmanship for a one (1) year period from date of
delivery. This warranty is valid only to the original pur-
chaser and does not extend to any product, or part there-
of, which has been subjected to accident, alteration, dam-
age, misuse, repair by other than Ross authorized repre-
sentatives, or has not been operated and maintained in
the manner prescribed in the Operating Manual or which
during the period of pump failure was being used with pump
sets or containers other than Ross pump sets and contain-
ers. Examples of damage or misuse include, but are not
limited to, pumps that have been dropped, have had fluid
spilled into or onto the casing, or have been submerged.

In no event shall Ross be liable for any incidental, indirect,
or consequential damages in conjunction with the pur-
chase or use of the pump, even if advised of the pos-
sibility of the same.

Ross reserves the right to repair or replace (at its option)
any pump that fails to meet the foregoing warranty.

THE WARRANTIES HEREIN ARE IN LIEU OF ALL OTHER
WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITH-
OUT LIMITATION, THE WARRANTIES OF MERCHANTABILITY
AND OF FITNESS FOR A PARTICULAR PURPOSE.

NOTE:
When returns on the unit are made under warranty because of faulty
material or workmanship within one year from the date of delivery to the
customer, the customer will not be billed for parts removed or repaired.
Also, the customer will not be charged for labor involved in connection
with replacement of such parts furnished under warranty.

Shipping costs for units returned to Ross, including handle, shall be paid
by the customer. The units should be properly wrapped and packed
and returned to Ross. If authorization is not granted, the customer
shall be billed for the cost of return.

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SPECIFICATIONS

PUMP CHARACTERISTICS
**INDICATIONS FOR USE**

The Flexflo® Pump can be used for adult and pediatric patients provided the patient can tolerate a feeding range within the pump operational specifications. Those specifications are:

- The flow rate range is 1-300 ml/hr in 1 ml/hr increments.
- The flow rate accuracy is ±10%, or ±1 ml/hr, whichever is greater.
- Pumps against 15 psi nominal back pressure before the PLO alarm.

If these specifications are not appropriate for a given patient, the Flexflo® Pump should not be used.

**PRECAUTIONS**

- All critical pumps have the potential to bolus-feed or overdeliver, which is an important consideration in bolus-volume-sensitive patients. In these patients, a volume of product no more than four times the hourly feeding rate should be used.

**NOT FOR IV USE**

- Confirm proper placement and function of patient's enteral feeding tube (nasogastric, nasogastrostomy, gastrostomy, etc.). Failure to do so may result in vomiting or aspiration. Verify the following before initiating feeding:

1. Only a Flexflo® Pump Set is being used.
2. Pump set tubing is properly stretched, connected (bidirectional), and blue connector is secured to the pump.
3. If the feeding set is damaged in any way (e.g., broken, cut, torn, parts separated), replace the set immediately.
4. Flow rate is set at the prescribed ml/hr (refer to page 7, TABLE 3-270 (67478)).

Pump set and container should be replaced as needed, or at least every 24 hours, to avoid fluid-contamination problems. For single-patient use only.
## TROUBLE-SHOOTING (continued)

<table>
<thead>
<tr>
<th>CONDITION OR PROBLEM</th>
<th>EXPLANATION OR CORRECTIVE ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUX 1 timeout</td>
<td>SEL run, turn dial to RUN</td>
</tr>
<tr>
<td>Electronics error</td>
<td>ERR code: remove pump from patient, immediately and contact Res.</td>
</tr>
<tr>
<td>Approximately 30 minutes of battery operation remain</td>
<td>Low Bat:</td>
</tr>
<tr>
<td></td>
<td>- Turn dial to MONI, then RUN.</td>
</tr>
<tr>
<td></td>
<td>- Plug power cord into AC outlet for 12 hours, then continue feeding.</td>
</tr>
<tr>
<td></td>
<td><strong>NOTE:</strong> After 30 minutes, pump alarms continuously for one minute, then shuts down.</td>
</tr>
<tr>
<td>LOW3 countdown</td>
<td>NS:</td>
</tr>
<tr>
<td></td>
<td>- Turn dial to MONI.</td>
</tr>
<tr>
<td></td>
<td>- If desired, program the LOW3 Timer for 1 - 30 minutes by depressing the up or down arrow.</td>
</tr>
</tbody>
</table>

- Lockout disables SET RATE, SET DOSE, and CLEAR VOL.

- Display test: All segments should be illuminated.

## CONTROL DIAL SETTINGs

### DIAL

<table>
<thead>
<tr>
<th>DIAL</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF/CHARGE</td>
<td>Stays all pump functions. Battery charges in all dial settings when pump is plugged in.</td>
</tr>
<tr>
<td></td>
<td>The pump will remain current, RATE, DOSE, and VOL/FED values indefinitely unless the pump is unplugged from an AC power source while in the OFF/CHARGE setting.</td>
</tr>
</tbody>
</table>

### SET RATE

- Allows flow rate to be set in 1.2 ml/hr increments by pressing the keypad arrows when the pump is in the SET RATE mode. The up arrow increases the rate. The down arrow decreases the rate. |

- **NOTE:** The LOCK feature may be activated by depressing both arrows simultaneously when the dial is in the SET RATE position. Repeat procedure in directions. The SET RATE, SET DOSE, and CLEAR VOL. values cannot be changed while the LOCK feature is activated. |

### SET DOSE

- Allows dose to be limited 11 to 5999 ml in 1 ml increments by pressing the keypad arrows when the pump is in the SET DOSE mode. The up arrow increases the dose. The down arrow decreases the dose. |

- Completion of this dose triggers the dose FED alarm. Refer to dose FED alarm (page 11). |

- MORE: Pump will operate without a DOSE selected (SET DOSE at 000). |

### RUN

- Only operating that provides feeding. Display shows rate of flow in ml/hr and the data on the left side of the display scrolls from top to bottom when pump is in RUN mode. |

- **NOTE:** It is normal for rotor movement to be intermittent (stop, step, stop, step, step) while in the RUN mode. This intermittent movement regulates the rate of flow, consuming battery life and does not affect the accuracy of the pump. The RUN mode should always be verified by the top to bottom scrolling bars on the left side of the display window.
CHECKING PUMP ACCURACY

Fluid head height and viscosity are two variables that can affect flow rate. To check flow rate, use the following procedure:

Select a pump set for this test. Measure to use a graduated cylinder for volume measurement—not an enteral container or other uncalibrated vessel. Using EnteraLite Complete, Balanced Nutrition™, OmadaLite® Isotonic Liquid Nutrition or tap water, fill the feeding container and set up pump according to instructions. Suspend bag to side or behind 20 inches above pump (see illustration). With the set pump connected to AC power, start the pump and let it run for 15 minutes. Then run fluid into the graduated cylinder for 30 minutes and compare to SET RATE on pump.

<table>
<thead>
<tr>
<th>SET RATE</th>
<th>30 MINUTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>76 ml/hr</td>
<td>34.2 ml to 41.8 ml</td>
</tr>
<tr>
<td>150 ml/hr</td>
<td>67.5 ml to 82.5 ml</td>
</tr>
</tbody>
</table>

If amount in graduated cylinder is incorrect based on SET RATE, try a new pump set and repeat procedure.

PUMP SETS

The EnteraLite Pump® Pump offers a wide choice of feeding sets.

PUMP SETS
EXAMPLE SHOWN:
FLEXILITE® Top-Fill Enteral Nutrition Bag
With Freeswitch® Safety Valve

Diagram:
- Pump
- Safety Valve
- Blue Connection
- Yellow Insert