For Hologic Technical Support, please call (800) 442-9892

Hologic Representative: ________________________________

Cell Phone: ________________________________

Email: ________________________________
Connect the color-coded vacuum tubing from the high (green) and low (white) pump vacuum ports to the vacuum ports on the back canisters. Do not discard vacuum tubes after the procedure, they are reusable.

Tandem connect the front canister to the back canisters using the tandem ports. Place a tissue trap in the front high vacuum canisters if the MyoSure® Tissue Removal Device is utilized.

Connect the white Y outflow tubing connector to the patient port on the front low vacuum canister.

Connect the yellow Y outflow tubing connector to the underbuttocks drape. Ensure the drape port is open so fluid can return to the canisters.
Set-up

**STEP 5**
Twist the yellow luer-lock onto the scope outflow channel.

**STEP 6**
Twist the blue inflow luer-lock onto the scope inflow channel.

**STEP 7**
Turn on the Aquilex system before any tubing is connected to the roller wheel. The system will perform a self-diagnostic test.

**STEP 8**
When prompted insert the inflow tubing around and past the roller wheel to secure into place.
Hang and spike fluid bags. Up to two fluid bags can be hung. Additional fluid bags should be readily available.

To prime the system check that the inflow stopcock is completely open and your fluid bag is unclamped. Press the “Prime” button. During the Prime Cycle the system will purge air from the system and perform an automatic lumen calibration. Once the prime is complete, the system will beep once and switch to system operating mode. Close the inflow stopcock.

Set an intrauterine pressure. Aquilex will automatically adjust its flow rate (capable of 800 ml/min) to maintain the set intrauterine pressure. The intrauterine pressure is adjustable from 40 to 150 mmHg.

Set a fluid deficit. The deficit is adjustable from 700 to 2,500 ml.

Press and hold the “Zero” button to 0 the fluid deficit.
Settings
For Hologic Technical Support, please call (800) 442-9892

Settings

<table>
<thead>
<tr>
<th>FLUID DEFICIT:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Solution Type</strong></td>
<td><strong>Examples</strong></td>
<td><strong>Deficit Limits</strong>*</td>
</tr>
<tr>
<td>Hypotonic</td>
<td>Glycine, Sorbitol, Mannitol</td>
<td>1,000 ml</td>
</tr>
<tr>
<td>Isotonic</td>
<td>Normal Saline or Lactated Ringers</td>
<td>2,500 ml</td>
</tr>
</tbody>
</table>

**Intrauterine Pressure:** the intrauterine pressure should be at the lowest pressure necessary to distend the uterine cavity and maintain visualization

User Tips
User Tips

Changing Canisters
1. Press the “Pause/Resume” button.
2. Change the canister and then press “Pause/Resume” once the change is complete and you are ready to continue the procedure.

How to Display the Total Volume
Hold down both the up and down arrows on the deficit limit display to show the total fluid volume.

Changing Bags
The Aquilex system does not need to be paused for bag changes.

How to Check the Vacuum
Test vacuum by placing a finger over the gold exhaust valves on the back of the Aquilex pump. If air is felt then the vacuum pumps are operating.
How to RePrime
1. Press “Pause”
2. Press and hold the “Prime” button for 3 seconds
3. Press the “Prime” button again to begin the Prime Cycle
4. Once complete the pump will switch to operating mode

Prime Complete Sequence
• The system will beep once
• The interface will say “Prime Successful”
• The system will then automatically switch to operating mode
Error Codes
## START-UP SEQUENCE MESSAGES

<table>
<thead>
<tr>
<th>Pump Display Message and Audible Tone</th>
<th>Cause</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Check Running</td>
<td>Normal start up sequence.</td>
<td>Wait for “System OK” message.</td>
</tr>
<tr>
<td>System OK 1 beep</td>
<td>Normal start up sequence.</td>
<td>System is ready for operation.</td>
</tr>
<tr>
<td>Insert Tube Set</td>
<td>Tube set not inserted or transponder defective.</td>
<td>Insert tube set.</td>
</tr>
<tr>
<td>Press Prime Button</td>
<td>Normal start up sequence.</td>
<td>Press “Prime” button.</td>
</tr>
<tr>
<td>Prime Successful Close Stopcock 1 beep</td>
<td>Normal start up sequence.</td>
<td>Close inflow stopcock on hysteroscope.</td>
</tr>
<tr>
<td>Pump Operating</td>
<td>Normal start up sequence.</td>
<td>The surgeon may start the procedure.</td>
</tr>
<tr>
<td>Calibration Running</td>
<td>Normal start up sequence.</td>
<td>Automatic Lumen Calibration takes ~10 seconds to purge air from tubing and 10 seconds to calibrate hysteroscope.</td>
</tr>
</tbody>
</table>
# Operational Messages

<table>
<thead>
<tr>
<th>Pump Display Message and Audible Tone</th>
<th>Cause</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pump Paused</strong> <strong>Container Change</strong> 3 beeps</td>
<td>System in Pause mode during canister change. Roller wheel and vacuum pumps stopped. Deficit value locked.</td>
<td>Insert empty canister and hit “Pause/Resume” button.</td>
</tr>
<tr>
<td><strong>Check Tube Set Installation</strong> 1 beep</td>
<td>Tube set installed or inserted incorrectly.</td>
<td>Remove and re-insert tube set. If message recurs, switch to a new tube set.</td>
</tr>
<tr>
<td><strong>Tube Set Over Usage Limits</strong> 1 beep</td>
<td>Tube set recognition function indicates tube set has been used already.</td>
<td>Insert new tube set.</td>
</tr>
<tr>
<td><strong>Check Flow Path Stopcock, Clamps</strong> 1 beep</td>
<td>Flow path is blocked. Check that bag clamps &amp; hysteroscope stopcock are open.</td>
<td>Check that tube set is free of obstructions.</td>
</tr>
<tr>
<td><strong>Incorrect Tube Set</strong> 1 beep</td>
<td>Tube set does not match type necessary for Aquilex System.</td>
<td>Replace tube set.</td>
</tr>
<tr>
<td><strong>Pause Pump For Container Change</strong></td>
<td>Removal of canister without first pressing “Pause/Resume” button.</td>
<td>Press “Pause/Resume” to restart system.</td>
</tr>
<tr>
<td><strong>Overpressure Check Stopcock</strong> 5 beeps, repeated</td>
<td>Intrauterine pressure has exceeded 200mmHg.</td>
<td>Open hysteroscope stopcock or remove other source(s) of blockage from inflow tube set to relieve pressure.</td>
</tr>
<tr>
<td><strong>Overpressure Open Stopcock</strong> 3 beeps</td>
<td>Intrauterine pressure is 10mmHg over the pressure setting.</td>
<td>Open hysteroscope stopcock or other occlusion to relieve pressure.</td>
</tr>
<tr>
<td><strong>Maximum Pressure</strong></td>
<td>Intrauterine pressure exceeds 150 mmHg.</td>
<td>The maximum permissible pressure has been reached.</td>
</tr>
<tr>
<td>Pump Display Message and Audible Tone</td>
<td>Cause</td>
<td>Instructions</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>-------</td>
<td>--------------</td>
</tr>
<tr>
<td>Deficit Limit Reached 1 beep</td>
<td>Fluid deficit equals deficit limit set by user</td>
<td>Physician must respond appropriately. Conduct manual deficit assessment, if necessary.</td>
</tr>
<tr>
<td>Deficit Limit Exceeded 3 beeps</td>
<td>Alarm every 100ml above deficit limit</td>
<td>Physician must respond appropriately. Conduct manual deficit assessment, if necessary.</td>
</tr>
<tr>
<td>Pressure Threshold 3 beeps</td>
<td>Pressures exceeding 100 mmHg are not usually required for hysteroscopy.</td>
<td>Diligent monitoring of fluid deficit is recommended.</td>
</tr>
<tr>
<td>Check Scale Connection 3 beeps</td>
<td>Incorrect scale values or communication error with scale operation interrupted</td>
<td>Check scale connection. Reconnect scale and restart system. If message recurs, contact Hologic Technical Support.</td>
</tr>
<tr>
<td>Remove Tube Set for System Check 1 beep</td>
<td>System check must be performed with tube set removed from pump head</td>
<td>Remove tube set and wait for audible signal and display to indicate &quot;Insert Tube Set.&quot;</td>
</tr>
<tr>
<td>Prime Fail -Open Stopcock, Clamps 3 beeps</td>
<td>Lumen calibration failed</td>
<td>Check bag clamp(s) and hysteroscope inflow stopcock are open. Press “Prime” button to restart.</td>
</tr>
<tr>
<td>High Fluid Loss Check Leakage 3 beeps</td>
<td>Deficit change &gt; 150ml for &gt; 30 seconds</td>
<td>Physician must respond appropriately. Conduct manual deficit assessment, if necessary.</td>
</tr>
<tr>
<td>Scale Overloaded Check Scale 3 beeps</td>
<td>Weight on scale exceeds 65 lbs</td>
<td>Weight on scale must be reduced. System function will resume once excess weight is removed.</td>
</tr>
</tbody>
</table>
## Error Codes

### OPERATIONAL MESSAGES (continued)

<table>
<thead>
<tr>
<th>Pump Display Message and Audible Tone</th>
<th>Cause</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication Error 5 beeps</td>
<td>Communication error between modules</td>
<td>Contact Hologic Technical Support.</td>
</tr>
<tr>
<td>Calibration Error 5 beeps</td>
<td>Software has detected a sensor problem</td>
<td>Contact Hologic Technical Support.</td>
</tr>
<tr>
<td>Sensor Error 5 beeps</td>
<td>No transponder signal and pressure sensor offset simultaneously</td>
<td>Contact Hologic Technical Support.</td>
</tr>
<tr>
<td>Motor Error 5 beeps</td>
<td>Motor defective</td>
<td>Contact Hologic Technical Support.</td>
</tr>
<tr>
<td>Low Vac Failed Use Alternative 3 beeps</td>
<td>Vacuum sensor or vacuum pump defective</td>
<td>A substitute low pressure vacuum source is necessary to continue procedure.</td>
</tr>
<tr>
<td>High Vac Failed Use Alternative 3 beeps</td>
<td>Vacuum sensor or vacuum pump defective</td>
<td>A substitute high pressure vacuum source is necessary to continue procedure.</td>
</tr>
<tr>
<td>Vac Systems Out Use Alternative 3 beeps</td>
<td>Vacuum sensor or vacuum pump defective</td>
<td>Substitute vacuum sources are necessary to continue the procedure.</td>
</tr>
</tbody>
</table>
Configuration Images
Configuration Images

Hysteroscopy Side
- Bag Deflector
- Reusable Low Vacuum Tubing Connection (AQL-114)
- Scale Power Connection

MyoSure Side
- Adjustable High Vacuum Dial
- High Vacuum Tubing Connection (AQL-114)
- Aquilex Power Cord (AQL-210)
- MyoSure Connecting Power Cord (AQL-213)
Inflow Tubing (AQL-110)

- Scope Inflow Connection
- Bag Spikes

Y Outflow Tubing (AQL-111)

- Scope Outflow Connection
- Front Canister Connection
- Underbuttocks Drape Connection

Reminder: Tube sets are single use. Do not turn off the machine once the tube set has been inserted.
Configuration Images

Back of Aquilex System
- High Vacuum Tubing
- Tandem Tubing
- Myosure Tubing
- Tissue Trap
- Low Vacuum Tubing

Front of Aquilex System
- Outflow Tubing
Troubleshooting
Managing Vacuum

- Confirm the pump is not in pause mode, vacuum pumps do not run when the system is paused.
- Confirm there are no cracks in the canister and that the lids are properly sealed.
- To increase suction to the underbuttocks drape close the outflow channel.
- To increase suction to the outflow channel clamp off the underbuttocks drape.

Managing Distention and Visualization

- **Aquilex**
  - Verify the saline bag clamps are open
  - Confirm the canister lids and unused ports are sealed
  - Increase fluid pump pressure

- **Hysteroscope**
  - Confirm inflow tubing is connected to the inflow port
  - Review tubing to confirm it is not pinched or occluded
  - Lower suction/vacuum level

- **MyoSure Tissue Removal Device**
  - The field of view may clear in a couple of seconds if the device is left in the cavity

Managing High or Rapidly Increasing Fluid Deficits

Check that no fluid is pooling on the floor or under the patient. If fluid is collecting in the underbuttocks drape, check that the drape port is open and the tubing is unclamped. To increase vacuum to the underbuttocks drape close the outflow stopcock.
Changing lives. At Hologic, we turn understanding and compassion into superior solutions for gynecologic health. We believe all women should be free of debilitating conditions that rob them of the ability to enjoy life to its fullest. We are passionate about delivering innovative products for the simple, efficient treatment of these conditions – helping you change and dramatically improve the lives of your patients.

Clinical Diagnostics Solutions
Skeletal Health Solutions
Women’s Health Solutions

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