### eHTX-0025-V
- **Model**: eHTX-0025-V
- **Flow Rate**: 115 m³/hr (67 gpm)
- **Purge Valve Size**: 1/4” (0.6 mm)
- **Capacity**: 148 liters (38 m³)
- **Weight**: 148 lbs (67 kg)

### eHTX-0040-V
- **Model**: eHTX-0040-V
- **Flow Rate**: 221 m³/hr (138 gpm)
- **Purge Valve Size**: 1/2” (1.7 mm)
- **Capacity**: 305 liters (80 m³)
- **Weight**: 257 lbs (117 kg)

### eHTX-0060-V
- **Model**: eHTX-0060-V
- **Flow Rate**: 498 m³/hr (366 gpm)
- **Purge Valve Size**: 1 1/2” (38.1 mm)
- **Capacity**: 807 liters (213 m³)
- **Weight**: 807 lbs (366 kg)

### eHTX-0185-V
- **Model**: eHTX-0185-V
- **Flow Rate**: 2608 m³/hr (2260 gpm)
- **Purge Valve Size**: 2” (51 mm)
- **Capacity**: 807 liters (213 m³)
- **Weight**: 257 lbs (117 kg)

### Separator Efficiency
- **Separator Efficiency**: 98.22% sand removal

### Purge Valve Models
- **ABV2-07**: 3/4 inches (19.05 mm)
- **EFS-07**: 3/4 inches (19.05 mm)
- **EFS-15**: 1 1/2 inches (38.1 mm)

### Filtration Test
- Test completed on LAKOS 3” Separator Design Iteration 806/8/12.
- **Test Conditions**:
  - System Pressure: 106-150 psi
  - Inlet Flow: 15 – 770 gpm
  - Outlet Flow: 20% or less
- **Test Conditions**:
  - Test Flow: 150 psi (10.3 bar)
  - Maximum Flow: 770 gpm
  - Maximum Pressure: 106 psi (7.3 bar)

### Separator Specifications
- **Separator Efficiency**: 98.22% sand removal

### Purge Valve Models
- **ABV2-07**: 3/4 inches (19.05 mm)
- **EFS-07**: 3/4 inches (19.05 mm)
- **EFS-15**: 1 1/2 inches (38.1 mm)

### Filtration Applications
- **High Efficiency Liquid-Solid Separators**
- **Continuous Filtration with Zero Maintenance**

### LAKOS® Innovations
- **Swirlex Slots™**
- **Vortube™**
- **LAKOS High Efficiency Product™**

### LAKOS® Performance
- **Zero Maintenance**
- **Zero Water Loss**
- **Continuous Filtration**

### LAKOS® History
- Founded in Fresno, California since 1972
- Recognized for engineering, manufacturing, and marketing the original centrifugal action solid-liquid separator

### LAKOS® Awards
- **IAPMO**
- **ISO (International Standards Organization)**
- **ASHRAE**
- **Irrigation Association**
- **American National Standards Institute**

### LAKOS® Memberships
- **American National Standards Institute**
- **Irrigation Association**
- **American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE)**
- **American National Standards Institute (ANSI)**
- **American National Standards Institute (ANSI)**

### LAKOS® Testing
- **Testing Laboratories**
  - International Center for Water Technology (ICWT)
  - Industrial Testing (IT)
  - International Standards Organization (ISO)
  - American National Standards Institute (ANSI)

### LAKOS® Technology
- **Swirlex Technology**
- **Vortube Technology**
- **LAKOS High Efficiency Product™**

### LAKOS® Contact Information
- **Phone**: 559-278-2066
- **Fax**: 559-255-8093
- **Email**: info@lakos.com

---

**Continuous Filtration with Zero Maintenance**

**Filtration with Zero Maintenance**

**LAKOS® High Efficiency Product™**

**LAKOS® Separators and Filtration Solutions**

**Innovative. Reliable. Effective. Energy Efficient.**
Benefits:
• Near 100% of flow from the cooling tower to downstream equipment - with zero downtime
• Maintain design heat transfer efficiencies on new and existing equipment
• Significantly extend maintenance intervals for cleaning chiller tubes, plate heat exchangers, compressors, etc.
• Zero filtration maintenance when using LAKOS Controllers and Automated Purge Valves
• Point of use application

Solids Recovery Vessel (SRV) Features and Benefits:
• For more information see LAKOS literature LS-622
• Optional indicator package to facilitate bag changeouts

Electric Fail-Safe Valve (EFS) Features and Benefits:
• Battery backup electric fail-safe option automatically closes valve in event of power failure
• Eliminates manual purging
• EFS actuator features an electronic circuit that automatically adjusts the motor speed (depending on torque variations) to keep cycle time constant – maintaining consistent purge durations
• Ability to set both purge duration and interval
• For more information see LAKOS literature LS-913

Solids Removal Chart:
Performance
Micros (µm) at 2.6 Specific Gravity

<table>
<thead>
<tr>
<th>Flow Rate</th>
<th>32-10 µm</th>
<th>16-23 µm</th>
<th>8-15 µm</th>
<th>5-10 µm</th>
<th>3-5 µm</th>
<th>1-5 µm</th>
</tr>
</thead>
<tbody>
<tr>
<td>25-100 gpm</td>
<td>22%</td>
<td>41%</td>
<td>48%</td>
<td>55%</td>
<td>62%</td>
<td>70%</td>
</tr>
<tr>
<td>15-25 gpm</td>
<td>29%</td>
<td>48%</td>
<td>55%</td>
<td>62%</td>
<td>70%</td>
<td>78%</td>
</tr>
<tr>
<td>10-15 gpm</td>
<td>36%</td>
<td>55%</td>
<td>62%</td>
<td>70%</td>
<td>78%</td>
<td>86%</td>
</tr>
<tr>
<td>5-10 gpm</td>
<td>43%</td>
<td>62%</td>
<td>70%</td>
<td>78%</td>
<td>86%</td>
<td>94%</td>
</tr>
</tbody>
</table>

Flow vs. Pressure Loss Chart

Solids Recovery Vessel (SRV) separated solids disposal to SRV-816 for separated solids collection.

Separated Solids Disposal

Higher Flow Rates

Manifolding in Parallel for High Flow Rates
When water system flow rates exceed that of any single LAKOS Separator, manifolding two or more units together can help achieve large flow requirements. LAKOS can assist with separator manifold design and facilitate high flow rate applications. Manifolding multiple units keeps units smaller, easier to install and provides for future flow rate changes.

Example: Three eHTX-0185 Separators increase flow range to 1350 – 3150 US gpm (307 – 717 m³/hr)

Solids Recovery Vessel (SRV)

Features and Benefits:
• Solids Recovery Vessel (SRV-816) features double capacity to allow for fewer bag change outs, includes two ten micron bags on order
• Lower waste treatment costs, meet waste disposal requirements and greatly reduce chemical loss
• eHTX Separators can purge to either SRV-816 or SRV-833 for separated solids collection
• Optional indicator package to facilitate bag changeouts
• For more information see LAKOS literature LS-622
**Performance Chart**

<table>
<thead>
<tr>
<th>Microns (µm) at 2.6 Specific Gravity</th>
<th>32+</th>
<th>23-32</th>
<th>16-22</th>
<th>11-15</th>
<th>1-10</th>
<th>1-5</th>
<th>0-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performance</td>
<td>55%</td>
<td>53%</td>
<td>49%</td>
<td>89%</td>
<td>88%</td>
<td>82%</td>
<td>99%</td>
</tr>
</tbody>
</table>

The above efficiency results were based upon 20% side stream within 16 hours. Field results may vary depending on side stream percentage and basin size.

**Benefits:**
- Minimize 95% of flow from the cooling tower to downstream equipment with zero downtime
- Maintain design heat transfer efficiencies on new and existing equipment
- Significantly extend maintenance intervals for cleaning chiller tubes, plate heat exchangers, compressors, etc.
- Zero filtration maintenance when using LAKOS Controllers and Automated Purge Valves
- Point of use application

**Got the process right first time, every time.**

**Electric Fail-Safe Valve (EFS)**

**Features and Benefits:**
- Battery backup ensures fail-safe operation
- Automatically closes valve in event of power failure
- Eliminates manual purging
- EFS actuator features an electronic circuit that automatically adjusts the motor speed (depending on torque variations) to keep cycle time constant – maintaining consistent purge durations
- Ability to set both purge duration and interval
- For more information see LAKOS literature LS-913

**Solids Recovery Vessel (SRV)**

**Features and Benefits:**
- Solids Recovery Vessel (SRV-816) features double capacity to allow for fewer bag change outs, includes two ten micron bags on order
- Lower waste treatment costs, meets waste disposal requirements and greatly reduce chemical loss
- eHTX Separators can purge to either SRV-816 or SRV-833 for separated solids collection
- Optional indicator package to facilitate bag change-outs
- For more information see LAKOS literature LS-622

**Solids Recovery Vessel (SRV)**

**Features and Benefits:**
- Lower waste treatment costs, meets waste disposal requirements and greatly reduce chemical loss
- eHTX Separators can purge to either SRV-816 or SRV-833 for separated solids collection
- Optional indicator package to facilitate bag change-outs
- For more information see LAKOS literature LS-622

**Manifolding in Parallel for High Flow Rates**

When water system flow rates exceed that of any single LAKOS Separator, manifolding two or more units together can help achieve large flow requirements. LAKOS can assist with separator manifold design and build high flow rate applications. Manifolding multiple units keeps units smaller, easier to install and provides for future flow rate changes.

**Example:** Three eHTX-0185 Separators increase flow range to 1350 US gpm (307 m³/hr)

**How It Works**

1. **Separator enters here**
2. **Solids are separated from fluid via centrifugal action**
3. **Solids collected in bottom are purged from Separator**
4. **Automated options are available for purge solids**
5. **Free of separated solids, fluid spirals up vortex to outlet**
6. **Patented internal tangential Swirlex Slot™ dramatically accelerates flow with minimal pressure loss and turbulence**
7. **Patented Vortube™ creates stabilized vortex flow for finer solids removal at minimal pressure loss**
8. **Solids are separated from fluid by centrifugal action**
9. **Clean water exits here**
10. **Separator continuously purges solids to SRV**
11. **Pressure gauges to monitor differential pressure, thereby verifying sufficient separator flow**

**Flow vs. Pressure Loss Chart**

**Solids Removal Chart:**

**Recirculated flow at 20% Side Stream**

**Flow Rate**

- 32+ µm
- 23-32 µm
- 16-22 µm
- 11-15 µm
- 1-10 µm
- 1-5 µm
- 0-1 µm

**Performance**

- 19.5%
- 99%
- 89%
- 82%
- 76%

**Separator Manifold**

**Solids Recovery Vessel (SRV)**

**Example:** Three eHTX-0185 Separators increase flow range to 1350 US gpm (307 m³/hr)

**Electric Fail-Safe Valve (EFS)**

**Features and Benefits:**
- Battery backup electric fail-safe option automatically closes valve in event of power failure
- Eliminates manual purging
- EFS actuator features an electronic circuit that automatically adjusts the motor speed (depending on torque variations) to keep cycle time constant – maintaining consistent purge durations
- Ability to set both purge duration and interval
- For more information see LAKOS literature LS-913
**Solids Removal Chart:**

**Flow vs. Pressure Loss Chart**

---

**eHTX-0320**

- Performance

**eHTX-0260**

- Pressure Loss

**eHTX-0185**

- Flow Rate

**eHTX-0140**

- separated solids collection

**eHTX-0090**

- separated solids collection

**eHTX-0080**

- separated solids collection

**eHTX-0060**

- separated solids collection

**eHTX-0040**

- separated solids collection

**eHTX-0025**

- separated solids collection

**eHTX-0015**

- separated solids collection

---

**The above efficiency results were based upon 20% side stream within 16 hours. Field results may vary depending on side stream percentage and basin size.**

---

**Benefits:**

- 100% of flow from the cooling tower to downstream equipment with zero downtime
- Maintains design heat transfer efficiencies on new and existing equipment
- Significantly extends maintenance intervals for cleaning chiller tubes, plate heat exchangers, compressors, etc.
- Zero filtration maintenance when using LAKOS Controllers and Automated Purge Valves
- Pilot of use application

---

**Powerful suction – zero liquid loss**

**Controllers and Automated Purge Valves**

- Electric Fail-Safe Valve (EFS)
- Separated Solids Disposal

**Solids Recovery Vessel (SRV)**

- Features and Benefits:
  - Solids Recovery Vessel (SRV-833) features double capacity to allow for easier bag change outs, includes two ten micron bags on order
  - Lower waste treatment costs, meet waste disposal requirements and greatly reduce chemical loss
  - eHTX Separators can purge to either SRV-816 or SRV-833 for separated solids collection
  - Optional indicator package to facilitate bag change-outs
  - For more information see LAKOS Literature LS-622

---

**Higher Flow Rates**

**Manifolding in Parallel for High Flow Rates**

When water system flow rates exceed that of any single LAKOS Separator, manifolding two or more units together can help achieve large flow requirements. LAKOS can assist with separator manifold design and facilitate high flow rate applications. Manifolding multiple units keeps units smaller, easier to install and provide for future flow rate changes.

**Example:** Three eHTX-0320 Separators increase flow range to 1355 – 1525 US gpm (310 – 337 m3/hr)

---

**How It Works**

1. **Outlet Manifold**
2. **SEPARATOR OUTLET**
3. **SEPARATOR INLET**
4. **EFS**
5. **SEPARATOR OUTLET**
6. **SEPARATOR INLET**
7. **SEPARATOR OUTLET**
8. **SEPARATOR INLET**

---

**Electric Fail-Safe Valve (EFS)**

- **Features and Benefits:**
  - Battery backup electric fail-safe option automatically closes valve in event of power failure
  - Eliminates manual purging
  - EFS actuator features an electronic circuit that automatically adjusts the motor speed (depending on torque variations) to keep cycle time constant – maintaining consistent purge durations
  - Ability to set both purge duration and interval
  - For more information see LAKOS Literature LS-913

---

**Electric Fail-Safe Valve (EFS)**

- **Features and Benefits:**
  - Battery backup electric fail-safe option automatically closes valve in event of power failure
  - Eliminates manual purging
  - EFS actuator features an electronic circuit that automatically adjusts the motor speed (depending on torque variations) to keep cycle time constant – maintaining consistent purge durations
  - Ability to set both purge duration and interval
  - For more information see LAKOS Literature LS-913

---

**Separated Solids Disposal**

- **Features and Benefits:**
  - For more information see LAKOS Literature LS-622

---

**Solids Recovery Vessel (SRV)**

- **Features and Benefits:**
  - For more information see LAKOS Literature LS-622
  - Optional indicator package to facilitate bag change-outs

---

**Electric Fail-Safe Valve (EFS)**

- **Features and Benefits:**
  - Battery backup electric fail-safe option automatically closes valve in event of power failure
  - Eliminates manual purging
  - EFS actuator features an electronic circuit that automatically adjusts the motor speed (depending on torque variations) to keep cycle time constant – maintaining consistent purge durations
  - Ability to set both purge duration and interval
  - For more information see LAKOS Literature LS-913

---

**Separated Solids Disposal**

- **Features and Benefits:**
  - For more information see LAKOS Literature LS-622
  - Optional indicator package to facilitate bag change-outs

---

**Solids Recovery Vessel (SRV)**

- **Features and Benefits:**
  - For more information see LAKOS Literature LS-622
  - Optional indicator package to facilitate bag change-outs

---

**Electric Fail-Safe Valve (EFS)**

- **Features and Benefits:**
  - Battery backup electric fail-safe option automatically closes valve in event of power failure
  - Eliminates manual purging
  - EFS actuator features an electronic circuit that automatically adjusts the motor speed (depending on torque variations) to keep cycle time constant – maintaining consistent purge durations
  - Ability to set both purge duration and interval
  - For more information see LAKOS Literature LS-913

---

**Separated Solids Disposal**

- **Features and Benefits:**
  - For more information see LAKOS Literature LS-622
  - Optional indicator package to facilitate bag change-outs

---

**Solids Recovery Vessel (SRV)**

- **Features and Benefits:**
  - For more information see LAKOS Literature LS-622
  - Optional indicator package to facilitate bag change-outs

---

**Electric Fail-Safe Valve (EFS)**

- **Features and Benefits:**
  - Battery backup electric fail-safe option automatically closes valve in event of power failure
  - Eliminates manual purging
  - EFS actuator features an electronic circuit that automatically adjusts the motor speed (depending on torque variations) to keep cycle time constant – maintaining consistent purge durations
  - Ability to set both purge duration and interval
  - For more information see LAKOS Literature LS-913

---

**Separated Solids Disposal**

- **Features and Benefits:**
  - For more information see LAKOS Literature LS-622
  - Optional indicator package to facilitate bag change-outs

---

**Solids Recovery Vessel (SRV)**

- **Features and Benefits:**
  - For more information see LAKOS Literature LS-622
  - Optional indicator package to facilitate bag change-outs

---

**Electric Fail-Safe Valve (EFS)**

- **Features and Benefits:**
  - Battery backup electric fail-safe option automatically closes valve in event of power failure
  - Eliminates manual purging
  - EFS actuator features an electronic circuit that automatically adjusts the motor speed (depending on torque variations) to keep cycle time constant – maintaining consistent purge durations
  - Ability to set both purge duration and interval
  - For more information see LAKOS Literature LS-913

---

**Separated Solids Disposal**

- **Features and Benefits:**
  - For more information see LAKOS Literature LS-622
  - Optional indicator package to facilitate bag change-outs

---

**Solids Recovery Vessel (SRV)**

- **Features and Benefits:**
  - For more information see LAKOS Literature LS-622
  - Optional indicator package to facilitate bag change-outs

---

**Electric Fail-Safe Valve (EFS)**

- **Features and Benefits:**
  - Battery backup electric fail-safe option automatically closes valve in event of power failure
  - Eliminates manual purging
  - EFS actuator features an electronic circuit that automatically adjusts the motor speed (depending on torque variations) to keep cycle time constant – maintaining consistent purge durations
  - Ability to set both purge duration and interval
  - For more information see LAKOS Literature LS-913

---

**Separated Solids Disposal**

- **Features and Benefits:**
  - For more information see LAKOS Literature LS-622
  - Optional indicator package to facilitate bag change-outs

---

**Solids Recovery Vessel (SRV)**

- **Features and Benefits:**
  - For more information see LAKOS Literature LS-622
  - Optional indicator package to facilitate bag change-outs

---

**Electric Fail-Safe Valve (EFS)**

- **Features and Benefits:**
  - Battery backup electric fail-safe option automatically closes valve in event of power failure
  - Eliminates manual purging
  - EFS actuator features an electronic circuit that automatically adjusts the motor speed (depending on torque variations) to keep cycle time constant – maintaining consistent purge durations
  - Ability to set both purge duration and interval
  - For more information see LAKOS Literature LS-913

---

**Separated Solids Disposal**

- **Features and Benefits:**
  - For more information see LAKOS Literature LS-622
  - Optional indicator package to facilitate bag change-outs

---

**Solids Recovery Vessel (SRV)**

- **Features and Benefits:**
  - For more information see LAKOS Literature LS-622
  - Optional indicator package to facilitate bag change-outs

---

**Electric Fail-Safe Valve (EFS)**

- **Features and Benefits:**
  - Battery backup electric fail-safe option automatically closes valve in event of power failure
  - Eliminates manual purging
  - EFS actuator features an electronic circuit that automatically adjusts the motor speed (depending on torque variations) to keep cycle time constant – maintaining consistent purge durations
  - Ability to set both purge duration and interval
  - For more information see LAKOS Literature LS-913

---

**Separated Solids Disposal**

- **Features and Benefits:**
  - For more information see LAKOS Literature LS-622
  - Optional indicator package to facilitate bag change-outs

---

**Solids Recovery Vessel (SRV)**

- **Features and Benefits:**
  - For more information see LAKOS Literature LS-622
  - Optional indicator package to facilitate bag change-outs

---

**Electric Fail-Safe Valve (EFS)**

- **Features and Benefits:**
  - Battery backup electric fail-safe option automatically closes valve in event of power failure
  - Eliminates manual purging
  - EFS actuator features an electronic circuit that automatically adjusts the motor speed (depending on torque variations) to keep cycle time constant – maintaining consistent purge durations
  - Ability to set both purge duration and interval
  - For more information see LAKOS Literature LS-913

---

**Separated Solids Disposal**

- **Features and Benefits:**
  - For more information see LAKOS Literature LS-622
  - Optional indicator package to facilitate bag change-outs
Independent Testing

Filtration Test completed on LAKOS’ 3” Separator Design Iteration 200/8/12. The filter assembly was installed with test components defined as follows. Installed in the following order starting upstream:

1) Tertiary type rake filter media
2) 40-micron disc filter assembly
3) 4-micron plate-and-frame in-line micron filter
4) 400-µm perforated plate
5) Pipe spool
6) Single-electric motor
7) Inlet
8) Separator

Test Conditions: 200 gpm, 1.14 psi loss

Sample Breakdown (Grain):
40 µm—loss: 75.000

Test Conditions:
200 gpm, 11.4 psi loss

7) 20 micron disc filter assembly
6) 3” spool
5) 20 micron disc filter assembly
4) 3” spool
3) 20 micron disc filter assembly
2) 3” spool
1) 200 mesh disc filter assembly

Results:

<table>
<thead>
<tr>
<th>Mesh Size</th>
<th>Sample Size (Grams)</th>
<th>Recovery Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-106 micron</td>
<td>47.404</td>
<td>98.7%</td>
</tr>
<tr>
<td>45-75 micron</td>
<td>75.000</td>
<td>100%</td>
</tr>
<tr>
<td>Total sample size</td>
<td>141.111</td>
<td>100%</td>
</tr>
</tbody>
</table>

Reduced grams from downstream filters:

<table>
<thead>
<tr>
<th>Mesh Size</th>
<th>Sample Size (Grams)</th>
<th>Recovery Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-106 micron</td>
<td>134.760</td>
<td>95.5%</td>
</tr>
<tr>
<td>45-75 micron</td>
<td>132.365</td>
<td>85.3%</td>
</tr>
<tr>
<td>Total sample size</td>
<td>267.125</td>
<td>100%</td>
</tr>
</tbody>
</table>

Note: Sand sample: Quartz, Silicon Dioxide by Powder Technology Inc.

Date: August 1, 2012

For more information about ABV2 valves, see LAKOS literature LS-239.

MODELS AND DIMENSIONS: Base Plate

<table>
<thead>
<tr>
<th>Model</th>
<th>Inlet</th>
<th>Outlet</th>
<th>Pinhole</th>
<th>Size</th>
<th>ANSI Size</th>
<th>Pressure</th>
<th>Flow Rate</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>eHTX-0025-V</td>
<td>25</td>
<td>60</td>
<td>6</td>
<td>1-1/4&quot;</td>
<td>3/4&quot;</td>
<td>0.25</td>
<td>0.95</td>
<td>115</td>
</tr>
<tr>
<td>eHTX-0015-V</td>
<td>15</td>
<td>30</td>
<td>3</td>
<td>1&quot;</td>
<td>3/4&quot;</td>
<td>0.25</td>
<td>0.95</td>
<td>97</td>
</tr>
<tr>
<td>eHTX-0040-V</td>
<td>40</td>
<td>95</td>
<td>9</td>
<td>1-1/2&quot;</td>
<td>3/4&quot;</td>
<td>0.6</td>
<td>2.3</td>
<td>184</td>
</tr>
<tr>
<td>eHTX-0080-V</td>
<td>80</td>
<td>185</td>
<td>18</td>
<td>2-1/2&quot;</td>
<td>3/4&quot;</td>
<td>1.2</td>
<td>4.5</td>
<td>298</td>
</tr>
<tr>
<td>eHTX-0060-V</td>
<td>60</td>
<td>140</td>
<td>13</td>
<td>2&quot;</td>
<td>3/4&quot;</td>
<td>0.6</td>
<td>2.3</td>
<td>221</td>
</tr>
<tr>
<td>eHTX-0185-V</td>
<td>185</td>
<td>450</td>
<td>42</td>
<td>4&quot;</td>
<td>1-1/2&quot;</td>
<td>1.7</td>
<td>6.4</td>
<td>498</td>
</tr>
</tbody>
</table>

Claude Lalonde Corporation, headquartered in Fresno, California since 1972, is recognized internationally for its products, manufacturing and marketing its original centrifugal solid-liquid separation technology. LAKOS Separators are manufactured in the USA.

For more information about LAKOS products, see LAKOS literature LS-239.

LAKOS is an active member of the U.S. Green Building Council.

For over 30 years, the internationally recognized ICWT/CIT Testing Laboratories have been providing independent, third party testing to a wide range of engineers and other industries around the world.

The ICWT/CIT Testing Laboratories test to ISO (International Standards Organization) as well as to ANSI (American National Standards Institute), IA (Irrigation Association), and other recognized standards to evaluate and application suitability.

For more information about the testing agency and testing process can be found at www.californiawater.org.

This test agency is available and approachable by phone: 559-278-2066, email: info@lakos.com, or visit www.lakos.com.
Independent Testing

Filtration Test completed on LAKOS 3" Separator Design Iteration 200/8/12. The filter assembly was installed with test components defined as follows, installed in the following order starting upstream:

1) 2" Micro-fine bag filter assembly
2) 4" pipe spool with sand injection pump
3) 4" pipe spool under test
4) 3" pipe spool downstream from the filter assembly

Test Conditions: 200 gpm, 11.4 psi loss
Sample Breakdown (Grains):
40+ minus 45 75,000
Total sample size: 75,000
Recovered grains from downstream filters: 1,001

Filtration efficiency: 73.89/75,000 = 98.7%

Note: Sand sample: Quartz, Silicon Dioxide by Powder Technology Inc.

Claude Laval Corporation, headquartered in Fresno, California since 1972, is recognized globally as a leader in cooling tower and water systems manufacturing and marketing for original equipment and replacement parts from liquid separators and heat exchanger selection and sizing, to complete systems, including heat recovery, cooling towers and related systems. Claude Laval Corporation is recognized for its superior value-added service. For general information, please don’t hesitate to contact Claude Laval Corporation at service@lakos.com.

LAKOS Separators are manufactured in the USA.

Options for LAKOS separators include:

- Standard, low profile, or high profile configurations
- Inlet and outlet connections for ease of installation
- Material options such as stainless steel, bronze, and plastic
- Flow rates from 25 to 260 gpm
- Pressure ratings up to 150 psi
- Temperature ratings up to 180°F

LAKOS separators are designed to meet the needs of various industries, including cooling towers, hydropower, hydraulics, and water treatment. They are available in a range of sizes and configurations to ensure the best possible filtration performance.

For more information about LAKOS Separators, visit lakos.com.