LAKOS eJPX Separators feature improved internals and increased efficiencies as compared to our JPX Separators. SmartPurge™ dramatically accelerates liquid and turbulence for finer solids removal. Patented Vortube™ from Separator bottom are purged 6 Solids collected in collection chamber. Patented Vortube™ creates stabilized vortex flow for finer solids removal.

LAKOS Separators are manufactured by the USA. LAKOS Separators have been independently tested and certified by an independent testing agency, the International Center for Water Technology (ICWT), confirming our separators' performance and capability to remove troublesome particle matter from pumped water. Independent Testing provides manufacturers, distributors and end-users with accurate performance data for applicability assessment and product development. LAKOS was recently certified by ICWT - North American premier third party certification body for plumbing and mechanical products. More information about the testing agency and testing process can be found at www.icwt.org for plumbing and mechanical products. More information about the testing agency and testing process can be found at www.icwt.org.

Filtration Test completed on Lakos Separator - eJPX-0560
The filter assembly was installed with test components defined as follows installed in the following order starting upstream:

1) 12" Venturi-type flow meter
2) 55 micron disc filter assembly
3) 45-75 micron: 200
4) 44 micron (325 mesh), 2.6 specific gravity, and larger
5) 6" pipe spool
4) Separator under test
2) 55 micron disc filter assembly
1) 12" Venturi-type flow meter

Test Condition: 950 gpm, 15.5 psi loss

Test 1 Sample Breakdown (Grams):
- Recovered from downstream filters: 2.3
- Filter efficiency: 697.7 / 700.0 = 99.7%
- Media: Quartz, Silicon Dioxide, specific gravity: 2.6
- Test Conditions: 950 gpm, 15.5 psi loss

Test 2 Sample Breakdown (Grams):
- Recovered from downstream filters: 7.3
- Filter efficiency: 692.7 / 700.0 = 99.0%
- Test Conditions: 950 gpm, 15.5 psi loss

Test 3 Sample Breakdown (Grams):
- Recovered from downstream filters: 192.1
- Filter efficiency: 192.1 / 200.0 = 96.1%
- Test Conditions: 950 gpm, 15.5 psi loss

Note: Media: Quartz, Silicon Dioxide, specific gravity: 2.6

For detailed warranty information visit http://www.lakos.com

Filter performance rated to remove 98% of all solids 44 micron and larger using centrifugal action that provides fine particle removal (up to 98% of 44 micron and larger) using centrifugal action in a single pass. LAKOS eJPX is our highest efficiency liquid-solid separator that provides fine particle removal (up to 98% of 44 micron and larger) using centrifugal action for industrial applications. This results in greater solids removal, lower maintenance, and fewer unexpected downtimes.

Flow-Rate: 55 to 1,200 U.S. gpm (1.25 – 233 m3/hr)
Maximum Standard Pressure: Max Range – 250 psi (1.7 bar) at 230° F (110°C)
Max Range – 250 psi (1.7 bar) at 230° F (110°C)
Maximum Temperature: 230° F (110°C)
Pressure Loss: As low as 3 psi

Contact Lakos for more information about the testing agency and testing process at www.icwt.org or visit our website at http://www.lakos.com/industrial.html. Providing manufacturers, distributors and end-users with accurate performance data for applicability assessment and product development. This test agency is available and approachable to confirm its test methodologies and results.

This feature is available and approachable to confirm its test methodologies and results. International Center for Water Technology (ICWT) provides manufacturers, distributors and end-users with accurate performance data for applicability assessment and product development. Fluid component testing provides fine particle removal using centrifugal action that provides fine particle removal (up to 98% of 44 micron and larger). LAKOS Separators have been independently tested and certified by an independent testing agency, the International Center for Water Technology (ICWT), confirming our separators' performance and capability to remove troublesome particle matter from pumped water. For over 30 years, the industry has recognized ICWT. Testing laboratories have long standing independent third party testing a wide range of innovations and other innovations around the world. ICWT has experience with hydraulic, pumps, filters, and valves. Fluid component testing provides manufacturers, distributors and end-users with accurate performance data for applicability assessment and product development. LAKOS Separators have been independently tested and certified by an independent testing agency, the International Center for Water Technology (ICWT), confirming our separators' performance and capability to remove troublesome particle matter from pumped water. This test agency is available and approachable to confirm its test methodologies and results. International Center for Water Technology (ICWT) provides manufacturers, distributors and end-users with accurate performance data for applicability assessment and product development. Fluid component testing provides manufacturers, distributors and end-users with accurate performance data for applicability assessment and product development.

High Efficiency Liquid-Solid Separator

Flow-Rate: 55 to 1,200 U.S. gpm (1.25 – 233 m3/hr)
Maximum Standard Pressure: Max Range – 250 psi (1.7 bar) at 230° F (110°C)
Max Range – 250 psi (1.7 bar) at 230° F (110°C)
Maximum Temperature: 230° F (110°C)
Pressure Loss: As low as 3 psi

Contact Lakos for more information about the testing agency and testing process at www.icwt.org or visit our website at http://www.lakos.com/industrial.html. Providing manufacturers, distributors and end-users with accurate performance data for applicability assessment and product development. This test agency is available and approachable to confirm its test methodologies and results. International Center for Water Technology (ICWT) provides manufacturers, distributors and end-users with accurate performance data for applicability assessment and product development. Fluid component testing provides manufacturers, distributors and end-users with accurate performance data for applicability assessment and product development. Fluid component testing provides manufacturers, distributors and end-users with accurate performance data for applicability assessment and product development. LAKOS Separators have been independently tested and certified by an independent testing agency, the International Center for Water Technology (ICWT), confirming our separators' performance and capability to remove troublesome particle matter from pumped water. For over 30 years, the industry has recognized ICWT. Testing laboratories have long standing independent third party testing a wide range of innovations and other innovations around the world. ICWT has experience with hydraulic, pumps, filters, and valves. Fluid component testing provides manufacturers, distributors and end-users with accurate performance data for applicability assessment and product development. LAKOS Separators have been independently tested and certified by an independent testing agency, the International Center for Water Technology (ICWT), confirming our separators' performance and capability to remove troublesome particle matter from pumped water. This test agency is available and approachable to confirm its test methodologies and results. International Center for Water Technology (ICWT) provides manufacturers, distributors and end-users with accurate performance data for applicability assessment and product development. Fluid component testing provides manufacturers, distributors and end-users with accurate performance data for applicability assessment and product development. Fluid component testing provides manufacturers, distributors and end-users with accurate performance data for applicability assessment and product development. LAKOS Separators have been independently tested and certified by an independent testing agency, the International Center for Water Technology (ICWT), confirming our separators' performance and capability to remove troublesome particle matter from pumped water. For over 30 years, the industry has recognized ICWT. Testing laboratories have long standing independent third party testing a wide range of innovations and other innovations around the world. ICWT has experience with hydraulic, pumps, filters, and valves. Fluid component testing provides manufacturers, distributors and end-users with accurate performance data for applicability assessment and product development.

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Flow Rates & Specifications

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Flow Range</th>
<th>Inlet/Outlet</th>
<th>Forged Size</th>
<th>Tube Collection Capacity</th>
<th>Dry Weight</th>
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### FLOW VS. PRESSURE LOSS CHART

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</table>

### MANUFACTURING IN PARALLEL

**eJPX Vertical Separators**: can be manufactured together to achieve higher flow rates. LAKOS provides all necessary piping to connect separators to a single inlet/outlet.

Example: Two eJPX-0560-V

Separators increase flow range to 1120-2060 US gpm

(254 – 468 m³/hr)

### Purging Options

**SmartPurge™ Purge Sensor**

- Works with all LAKOS purge accessories
- User adjustable timed purges
- Failsafe mode to warn of improper operation
- Vibrating blade tuned to sense changes in solids level within the LAKOS Separator
- Operates to warn of improper operation
- User adjustable timed purges
- Widespread use of LAKOS purge accessories

Refer to form LS-017 for details.

**AutoPurge-Ball Valves**

- Requires only electricity to operate valve according to programmed purge frequency and duration
- Provides the added safety of ABV Valve

Refer to form LS-237 for details.

**AutoPurge-Pneumatic Pinch Valves**

- Provides the added safety of APP Valve
- Requires electricity for the programmable controller and compressed air to operate the valve

Refer to form LS-356 for details.

**SmartPurge™ Purge Sensor**

- Works with all LAKOS purge accessories
- Operates to warn of improper operation
- User adjustable timed purges
- Widespread use of LAKOS purge accessories

Refer to form LS-017 for details.

**AutoPurge-Pneumatic Pinch Valves**

- Provides the added safety of APP Valve
- Requires electricity for the programmable controller and compressed air to operate the valve

Refer to form LS-356 for details.

**AutoPurge-Pneumatic Pinch Valves**

- Provides the added safety of APP Valve
- Requires electricity for the programmable controller and compressed air to operate the valve

Refer to form LS-356 for details.

**ABV Valve**

- Provides the added safety of ABV Valve
- Requires electricity for the programmable controller and compressed air to operate the valve

Refer to form LS-237 for details.

**APP Valve**

- Provides the added safety of APP Valve
- Requires electricity for the programmable controller and compressed air to operate the valve

Refer to form LS-356 for details.

**AKE Valve**

- Provides the added safety of AKE Valve
- Requires electricity for the programmable controller and compressed air to operate the valve

Refer to form LS-237 for details.
**Flow Rates & Specifications**

**U.S. gpm**

- **eJPX-0560-V** 560-1030 127-233 6" 1-1/2" 7.6 28.9 1366 620 2558 1160
- **eJPX-0425-V** 425-820 96-186 6" 1-1/2" 5.8 22.1 1122 509 2005 909
- **eJPX-0350-V** 350-650 79-147 4" 1-1/2" 4.1 15.7 862 391 1467 665
- **eJPX-0250-V** 250-490 56-111 4" 1-1/2" 1.9 7.1 548 249 851 386
- **eJPX-0195-V** 195-350 44-79 4" 1-1/2" 1.7 6.6 541 245 820 372
- **eJPX-0560-L** 560-1030 127-233 6" 1-1/2" 7.6 28.9 1343 609 2535 1150
- **eJPX-0350-L** 350-650 79-147 4" 1-1/2" 4.1 15.7 860 390 1465 665
- **eJPX-0250-L** 250-490 56-111 4" 1-1/2" 1.9 7.1 591 268 894 406
- **eJPX-0195-L** 195-350 44-79 4" 1-1/2" 1.7 6.6 584 265 863 391
- **eJPX-0135** 135-250 30-56 3" 1-1/2" 1.1 4.3 380 172 554 251
- **eJPX-0110** 110-200 25-45 2-1/2" 1-1/2" 1.1 4.3 345 156 496 225
- **eJPX-0080** 80-150 18-34 2" 3/4" 0.6 2.4 228 103 315 143
- **eJPX-0055** 55-100 12-22 1-1/2" 3/4" 0.6 2.4 187 85 258 117

**FLOW VS. PRESSURE LOSS CHART**

<table>
<thead>
<tr>
<th>Pressure Loss</th>
<th>Model</th>
<th>Flow Range</th>
<th>Inlet/Outlet</th>
<th>Solids Collection</th>
<th>Dry Weight</th>
<th>Wet Weight</th>
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**Purging Options**

- **SmartPurge™ Purge Sensor**
  - References the added utility of closing the valve during a power failure. Compensated air and electricity are required. Refer to form LS-554 for details.
  - Works with all LAKOS purge accessories.
  - User adjustable timed purges.
  - Vibrating blade tuned to sense changes in solids level within the LAKOS separator.
  - Separates solids only when required, reducing energy costs, fluid loss and maintenance time.
  - Stainless steel.
  - Adjustable purge mode to accommodate operational requirements.
  - Refer to form LS-237 for details.

- **Pneumatic Pinch Valves**
  - Requires only electricity for valve operation.
  - Compressed air and electricity are required. Refer to form LS-524 for details.

- **AutoPurge-Ball Valves**
  - Requires only electricity to operate the valve.
  - Refer to form LS-238 for details.

- **AutoPurge-Pneumatic Pinch Valves**
  - Requires electricity for operation and compressed air for the programmable controller to operate. Refer to form LS-356 for details.
  - Refer to form LS-237 for details.

**Models & Dimensions**

**LOW PROFILE MODELS & DIMENSIONS**

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**HIGH FLOW RATES**

**MANUFACTURING IN PARALLEL**

LAKOS eJPX Separators can be manufactured together to achieve higher flow rates. LAKOS provides all necessary piping to connect separators to a single inlet/outlet.

**Example:** Two eJPX-0560-V Separators increase flow range to 1120-2060 US gpm (254 – 468 m/hr)
Flow Rates & Specifications

Models & Dimensions

Higher Flow Rates

Specifications

Flow Rates & Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Flow Range</th>
<th>Inlet/Outlet</th>
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<th>Solids Collection Capacity</th>
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<td>1-1/2&quot;</td>
<td>1.7 6.6</td>
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<td>eJPX-0080-V</td>
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<td>3/4&quot;</td>
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<td>3/4&quot;</td>
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<td>3/4&quot;</td>
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Pressure Loss

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<tr>
<th>Flow Rate</th>
<th>Inlet/Outlet</th>
<th>Pipe Size NPT</th>
<th>Solids Collection Capacity</th>
<th>Flow Rate</th>
<th>Weight</th>
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<td>3/4&quot;</td>
<td>0.6 2.4</td>
<td>228</td>
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</tr>
</tbody>
</table>

Purging Options

SmartPurge™ Purge Sensor

- Provides the added value of closing the valve during a power failure. Compressed air and electricity are required. Refer to form LS-194 for details.
- AutoPurge™ Purge Sensor
  - Requires only compressed air to operate the valve during a power failure. Compressed air and electricity are required. Refer to form LS-194 for details.
  - AutoPurge™ Fail Safe Pneumatic Ball Valves
    - Provide the added safety of compressed air and electricity switching the valve during a power failure. Refer to form LS-237 for details.

Ball Valves

- APP Valve
- ABV Valve

Pinch Valves

- AKE Valve
- AKE Pinch Valve
- APP Valve
- ABV Valve

Akehna® Pinch Valve

- Preferred technique for durability and abrasiveness. Requires electricity for the programmable controller and compressed air for the valve. Refer to form LS-237 for details.

Contact LAKOS for additional information.
LAKOS eJPX Separators feature improved internals and increased efficiencies as compared to our JPX Separators.

**Independent Testing**

Filtration Test completed on Lakos Separator - eJPX-0560
The filter assembly was installed with test components defined as follows installed in the following order starting upstream:
1. 55 Micron disc filter assembly
2. 55 micron disc filter assembly
3. 5” Pipe x 10” section (Sanitary) or 152.4mm x 254mm (6” x 10”)
4. Separator under test
5. 55 micron disc filter assembly
6. 20 micron disc filter assembly
7. 1” pipe x 6” section (Sanitary) or 25.4mm x 152.4mm (1” x 6”)

**Test Condition:**

- Flow: 650 gpm, 15 gpm/loss
- Pressure Loss: As low as 3 psi
- Temperature: Maximum 230° F (110° C)
- Maximum Pressure: DIN flange – 232 psi (16 bar) at 230° F (110° C)
- ANSI flange – 250 psi (17.2 bar) at 230° F (110° C)
- JIS flange – 203 psi (14 bar) at 230° F (110° C)

**Flow Range:**

- 55 to 1,030 U.S. gpm (12.5 – 233 m³/hr)

**Filtration Performance**

- 44 micron and larger) using centrifugal action
- Pressure Loss: As low as 3 psi
- Temperature: Maximum 230° F (110° C)
- Maximum Pressure: DIN flange – 232 psi (16 bar) at 230° F (110° C)
- ANSI flange – 250 psi (17.2 bar) at 230° F (110° C)
- JIS flange – 203 psi (14 bar) at 230° F (110° C)

**Filtration Efficiency**

- Filter efficiency: 697.7 / 700.0 = 99.7%
- Note: Media: Alloy 17-4 PH, specific gravity: 7.8
- Recovered grams from downstream filters: 2.3
- 22-32 micron: 700
- 6) 20 micron disc filter assembly
- 5) 6” pipe spool
- 4) Separator under test
- 3) 6” pipe spool with sand-injection pump
- 2) 55 micron disc filter assembly
- Recovered grams from downstream filters: 7.3
- 22-32 micron: 700
- Note: Media: Fe45Si, specific gravity: 5.4
- Filter efficiency: 692.7 / 700.0 = 99.0%
- Recovered grams from downstream filters: 7.3
- 22-32 micron: 700
- Note: Media: Quartz, Silicon Dioxide, specific gravity: 2.6
- Filter efficiency: 689.8 / 700.0 = 98.5%
- Recovered grams from downstream filters: 13.5
- 22-32 micron: 700

**Features and Benefits**

- eJPX is our highest efficiency liquid-solid separator that provides fine particle removal (up to 98% of 44 micron and larger) using centrifugal action for industrial applications. This results in greater solids removal, lower maintenance, and fewer unexpected downtimes.

**patented features**

- SmartPurge™: Patent no. 7,000,782; 7,032,760; 6,090,276; 6,143,175; 6,167,960; 6,202,543; 7,000,782; 7,032,760
- Swirlex Slots™: Patent no. 7,000,782; 7,032,760; 6,090,276; 6,143,175; 6,167,960; 6,202,543; 7,000,782; 7,032,760
- Vortube™: Patent no. 7,000,782; 7,032,760; 6,090,276; 6,143,175; 6,167,960; 6,202,543; 7,000,782; 7,032,760

**Flow Diagram**

- Clean water enters here
- SmartPurge™ creates stabilized vortex flow for finer solids removal
- Solids are collected in bottom and are purged from Separator
- Solids purge. Automatic options available
- Pressure gauges with petcock valves (included as standard) to monitor proper flow range through differential pressure (DP)
- Patented Vortube™: Patented internal and turbulence minimal pressure loss
- Slotsm™ dramatically creates stabilized bottom are purged
- Sensor
- VALVE
- PUMP
- FLOW
- METER
- Sand
- TEST WATER SUMP
- LS-970B (Rev. 10/18)
- www.lakos.com
- Tel: 1.559.255.1601
- info@lakos.com
- 1365 North Clovis Avenue, Fresno, CA 93740-0018, USA

**SmartPurge™**

- Maintain design efficiency of downstream heat transfer surfaces.
- Continuous filtration and no backwashing.
- Low and steady pressure loss: as low as 3 psi
- No moving parts to wear out, no barriers or media to replace.
- Continuous filtration and no backwashing.
- SmartPurge™ port built into each model - allows for quick installation of SmartPurge™ System.
- Available in vertical and low-profile configurations.
- Optional materials of construction and ASME code available.
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LAKOS eJPX Separators have been independently tested and certified by an independent testing agency, the International Center for Water Technology (ICWT), confirming our separators' consistent performance and capability to remove troublesome particle matter from pumped water. For over 30 years, the internationally recognized ICWT/CIT Testing Laboratories have been performing objective testing on products and providing manufacturers, distributors, and end-users with accurate performance data for applicability, assessment and enable product development.

This test agency is available and approachable to confirm its test methodologies and results. ICWT has experience with hydraulics, pumps, irrigation and other industries around the world. ICWT/CIT Testing Laboratories have been providing independent testing services and certification for filtration performance and capability to remove fine particle matter (up to 98% of 44 micron and larger) using centrifugal action and corresponding foreign patents, other U.S. and foreign patents. LAKOS Separators have been independently tested and certified by an independent testing agency, the International Center for Water Technology (ICWT), confirming our separators’ consistent performance and capability to remove troublesome particle matter from pumped water. For over 30 years, the internationally recognized ICWT/CIT Testing Laboratories have been performing objective testing on products and providing manufacturers, distributors, and end-users with accurate performance data for applicability, assessment and enable product development. This test agency is available and approachable to confirm its test methodologies and results. ICWT has experience with hydraulics, pumps, irrigation and other industries around the world. ICWT/CIT Testing Laboratories have been providing independent testing services and certification for filtration performance and capability to remove fine particle matter (up to 98% of 44 micron and larger) using centrifugal action and corresponding foreign patents, other U.S. and foreign patents. LAKOS Separators have been independently tested and certified by an independent testing agency, the International Center for Water Technology (ICWT), confirming our separators’ consistent performance and capability to remove troublesome particle matter from pumped water. For over 30 years, the internationally recognized ICWT/CIT Testing Laboratories have been performing objective testing on products and providing manufacturers, distributors, and end-users with accurate performance data for applicability, assessment and enable product development. This test agency is available and approachable to confirm its test methodologies and results. ICWT has experience with hydraulics, pumps, irrigation and other industries around the world. ICWT/CIT Testing Laboratories have been providing independent testing services and certification for filtration performance and capability to remove fine particle matter (up to 98% of 44 micron and larger) using centrifugal action and corresponding foreign patents, other U.S. and foreign patents.