Self-Cleaning Pump Intake Screens

Protect commercial/industrial pumps and water systems from surface water organics & debris

Wherever unprotected pump intakes are threatened by organic debris and other troublesome floating solids, LAKOS ISF Screens provide a continuous, intelligent defense against clogging, lost suction and pump wear. A rugged, reliable internal backwash system blows debris off of and away from the screen, allowing water to flow freely to the pump (see illustration at right).

Wide range of applications
Rivers, effluent ponds, sumps, lakes, re-use pits, streams, tanks, canals, etc.

Protects pumps
For centrifugal, turbine and submersible types: Safeguards against damage to impellers and restricted suction/cavitation.

Energy savings
Helps maintain pump efficiency, reducing the need to pump longer to deliver required water volume. Continuously clean screen eliminates potential head/pressure loss.

Reduces maintenance
Continuous cleaning performance means no manual cleaning of stationary screens or routine system shutdowns.

Environmental protection
Low-velocity operation keeps fish, mussels, clams, etc. out of pump intakes.

Durable construction

Flow range:
Up to 2,700 U.S. gpm
(up to 615 m³/hr) per unit
Limited Warranty

All products manufactured and marketed by this corporation are warranted to be free of defects in material or workmanship for 12 months from date of installation; if installed 6 months or more after ship date, warranty shall be a maximum of 18 months from ship date.

If a fault develops, notify us, giving a complete description of the alleged malfunction. Include the model number(s), date of delivery and operating conditions of subject product(s). We will subsequently review this information and, at our option, supply you with either servicing data or shipping instruction and returned materials authorization. Upon prepayment receipt of subject product(s) at the instructed destination, we will then either repair or replace such product(s). If determined to be a warranted defect, we will perform such necessary product repair costs at our expense.

This limited warranty does not cover any products, damages or injuries resulting from misuse, neglect, normal expected wear, chemically-caused corrosion, improper installation or operation contrary to factory recommendation. Nor does it cover equipment that has been modified, tampered with or altered without authorization.

No other extended liabilities are stated or implied and this warranty in no event covers incidental or consequential damages, injuries or costs resulting from any such defective product(s).

General Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum Flow Rate</th>
<th>ISF Screen Outlet Pipe</th>
<th><strong>Required Backwash Pressure</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10 Mesh</td>
<td>30 Mesh</td>
<td></td>
</tr>
<tr>
<td>ISF 915</td>
<td>350</td>
<td>250</td>
<td>6</td>
</tr>
<tr>
<td>ISF 1415</td>
<td>600</td>
<td>500</td>
<td>6</td>
</tr>
<tr>
<td>ISF 1424</td>
<td>1100</td>
<td>800</td>
<td>12</td>
</tr>
<tr>
<td>ISF 3424</td>
<td>3700</td>
<td>3100</td>
<td>12</td>
</tr>
</tbody>
</table>

* Complete model number depends upon screen fabric (S = Stainless Steel or P = Phosphor Bronze) & mesh size (10 or 30).
** Required pressure range for the backwash return line at the ISF Screen connection.

Lakos Separators are manufactured and sold under one or more of the following U.S. Patents:
5,320,747; 5,338,341; 5,368,735; 5,425,876; 5,571,416; 5,578,203; 5,622,545; 5,653,874; 5,894,995; 6,090,276; 6,143,175; 6,197,960; 6,202,543; 6,262,765; 6,267,960; 6,372,782; 6,372,760 and corresponding foreign patents, other U.S. and foreign patents pending.