



INSTALLATION OPERATIONS AND MAINTENANCE

CSX SEPARATOR I&O MANUAL



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LAKOS CSX Separator

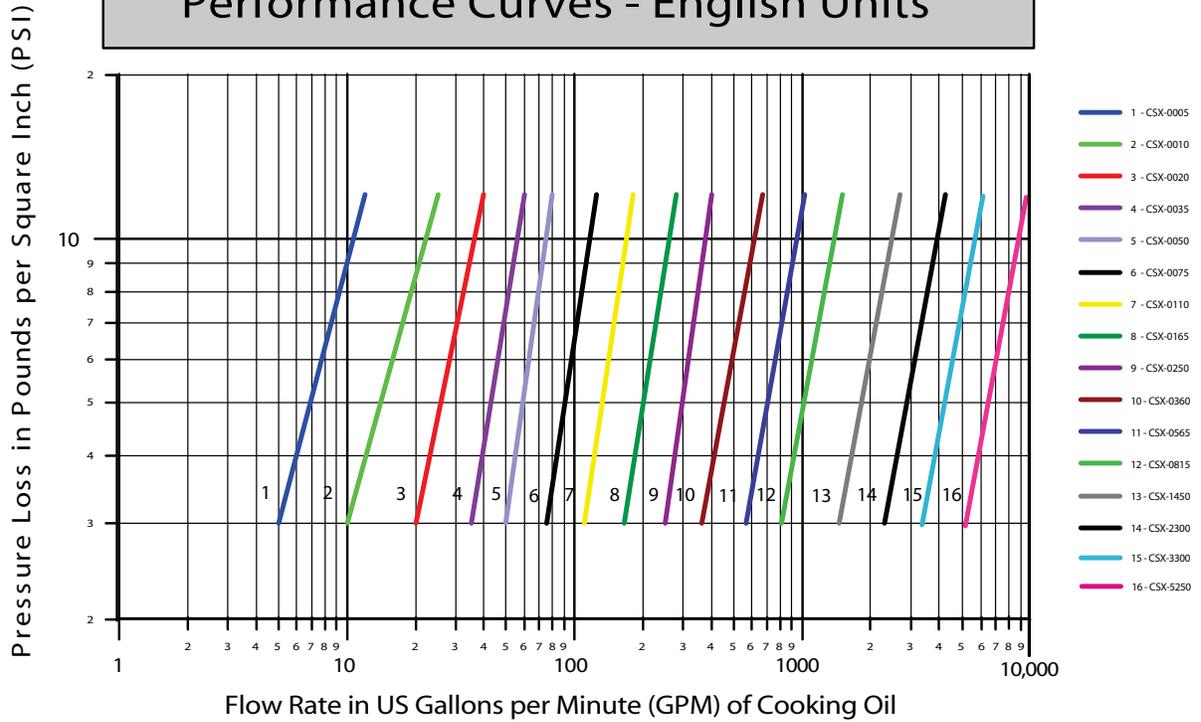
Installation Instructions:

1. Lakos CSX Separators are shipped on skids or in wooden crates. Support eyes are provided for hanging separator.
2. A suitable support is required to accommodate the Lakos Separator's weight with liquid. If a suitable support from building structure is not available, other means of support must be obtained. CSX separators are designed to hang from lifting lugs or by clamp (Separator should not be hung via piping). If this is not possible, consult factory before purchase.
3. Prior to installation, inspect the inlet & outlet for foreign material that may have entered in shipment or storage.
4. Inlet and outlet pipe connections to the Lakos Separator should have a straight run of at least five times the pipe diameter. This is to enhance performance by minimizing turbulence that may occur within the separator. Properly sized spools can be purchased.
5. Proper piping for purging is critical to the operation of the separator. Proper purging also improves the performance of your Lakos Separator. See Maintenance/Purging (below) for details on purge piping.
6. Lakos Separators are designed to operate within a prescribed flow range. Pipe size is not a factor in model selection. Properly sized hardware is required for inlet, outlet, and purge of separator.
7. Lakos Separators are to be installed on the discharge side of a pump. Lakos Separators will not separate properly if plumbed to the intake of a pump.
8. Inlet pressure to the Lakos Separator must be at least equal to or greater than the anticipated pressure loss through the separator plus 15 psi, plus whatever downstream pressure is required.
9. Pressure gauges should also be placed on the inlet and outlet of the separator to monitor pressure loss and separator performance.
10. After proper installation of the separator, sanitation is to be performed. Sanitation is not to be less than normal sanitation procedures for the facility or system installed.

Maintenance / Purging Instructions:

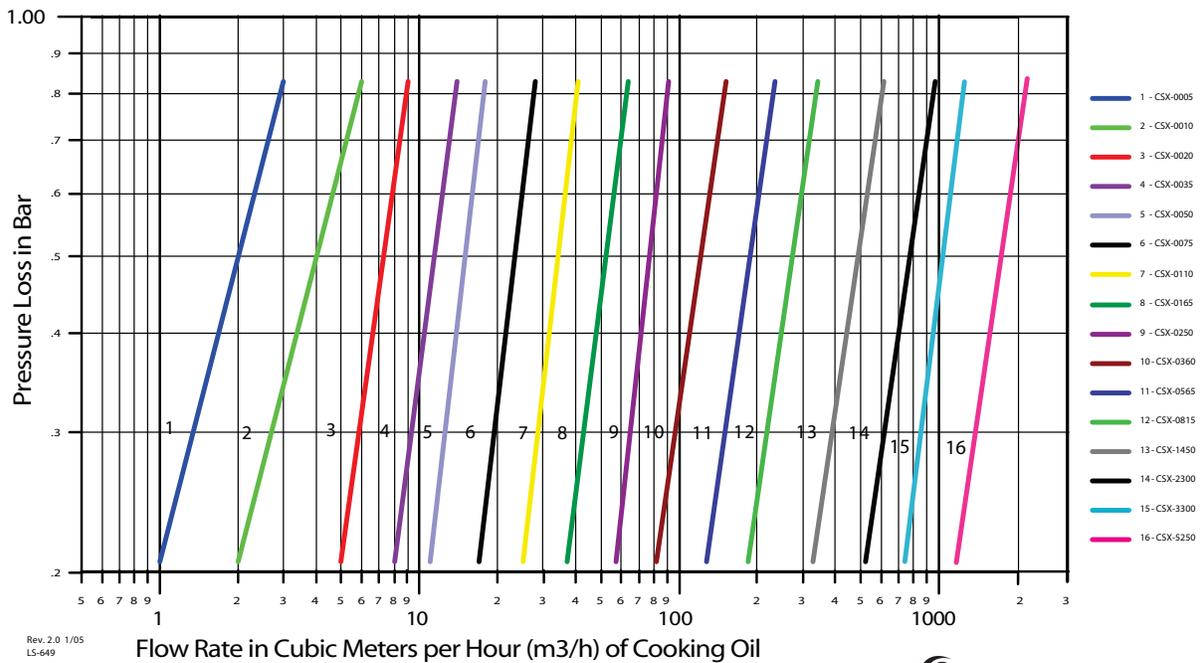
1. Lakos CSX Separator must be purged continuously to remove separated solids from the collection chamber.
2. The CSX has a recommended purge flow of 3% - 5% of inlet flow.
3. Purge piping is to be sized in a manner that the velocities are able to keep purge line clear of fines. Length should also be a part of this calculation.
4. Purge lines should not be sized smaller than 3/4". Purge lines should also run at shortest length possible. Extended runs of pipe can cause clogging if not sized properly. Purge should not run uphill unless factory consulted.
5. Manual isolation valve should be placed at the end of the purge line. Isolation valve may be used to control flow when applicable to the situation. Manually controlled flow should be opened completely once a week for flushing of valve and line.
6. Manual bypass should be placed on the separator in the case of purge blockages. Blockages may occur due to improper piping or unforeseen process issues.
7. Blockages should be cleaned only after a safe temperature is obtained. Separator should be bypassed immediately when a blockage occurs to minimize the extent of the blockage.

LAKOS CSX - Cooking Oil Separators Performance Curves - English Units



Rev. 2.0 1/05
LS-648

LAKOS CSX - Cooking Oil Separators Performance Curves - Metric Units



Rev. 2.0 1/05
LS-649

