

LYCO'S EXTERNAL-FLOW WASTEWATER SCREENS

Lyco Manufacturing's 50 year history of making innovative, rugged, and precise machinery has paid off again. As a food processing machine manufacturer, we are more than a screen company that sells on price.



The difference is that true value starts with serious workmanship, fewer replacement parts, items that fit together well, and accurate smooth turning cylinders. All together, these features provide longer life and better value.

HOW IT WORKS

Influent enters the headbox at the rear where it flows to and adheres to the screen. The screen carries it over the top and around to the doctor blade which removes the separated solids. Screened water passes through the screen. A spray manifold helps clean the screen from the inside.



OSCILLATING DOCTOR BLADE
For cleaning screen

WEDGEWIRE SCREEN CONSTRUCTION
Resists plugging

HEADBOX WITH OVER-FLOW
For protection

SEALED DRUM SEPARATOR

HOW IT WORKS

Used for rendering, effluent enters the wedgewire rotating cylinder contained inside the sanitary tank and accessibility cover. The .020 inch spaced screens separates solids above that size and conveys them down the length of the cylinder to the end. Liquid drains through and is collected.



SEALED DRUM BENEFITS:

- Sealed design contains odors
- Aids in controlling temperature
- Improves liquid recovery
- Sanitary easy to clean design
- Lifetime warranty on running rings



**THE EXPERTS IN INNOVATIVE
FOOD PROCESSING MACHINERY**

TRUST IN LYCO'S 50 YEARS OF EXPERIENCE

50 of the Top 100 North American food companies that feed the world trust and rely on Lyco Food Processing Machinery.

Our innovations in the Heating/Cooling and Liquid-Solid Separation machinery have made us a global leader and an expert in the food processing industry.

Our extensive equipment offerings include:

- Blanchers/Cookers/Coolers
- Wastewater/Liquid-Solid Separation
- Peelers/Washers/Scrubbers
- Green Bean Equipment
- After Market Services

For more information visit: www.LycoMfg.com

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**THE EXPERTS IN INNOVATIVE
FOOD PROCESSING MACHINERY**

POULTRY SCREENS



LYCO POULTRY SCREENS

LYCO MANUFACTURING HAS MORE THAN 50 YEARS OF INDUSTRY-LEADING EXPERIENCE MANUFACTURING FOOD PROCESSING MACHINERY AND WASTEWATER SCREENS.

The first Single Drum Screens were developed in 1993 for efficient liquid/solid separation for red meat, pork, poultry, seafood, and vegetable processing. These rugged screens were built with high-quality, dependable components for a long running life with less maintenance. Lyco's Screens are known as the best designed wastewater screens in North America.



LYCO SINGLE DRUM SCREEN INNOVATIONS:

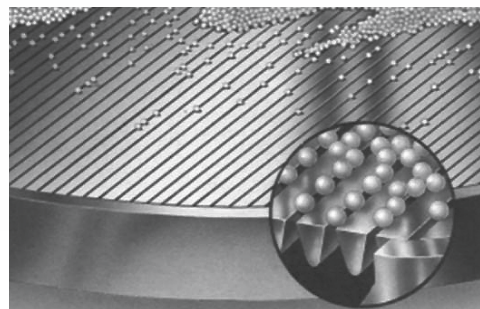
- Robust wedgewire
- Easy to unplug
- Traveling sprays
- Cylinders never fail

60 in. (154.4 cm) Diameter
x 126 in. (3.2 m) Long Single Drum
Wastewater Screen



SINGLE TO DOUBLE DRUM

Single Drum Screens can be made for applications with two screens in one machine. The .080 inch inner screen retains larger particles so the .020 inch outer screen can operate more efficiently with less loading.



WEDGEWIRE

The wedgewire triangular shape is very robust, making it less apt to plug than perforated materials.



TRAVELING SPRAYS

Using less than 10 GPM of water, Lyco's wedgewire screens are easily unplugged with traveling sprays.



NEVER-FAIL RINGS

Cast stainless steel running rings have never failed by themselves. Many units from the 1990s still operate today.



MICRO DRUMS SCREENS

The Micro Drum Screen is another innovative Lyco screen design with .005 in. to .008 in. screen openings. Following .020 in. Single Drum Wastewater Screening, the Micro Drum Screen removes up to 30% more solids. BOD (Biological Oxygen Demand), TSS (Total Suspended Solids) and TKN (Total Kjeldahl Nitrogen) are improved.

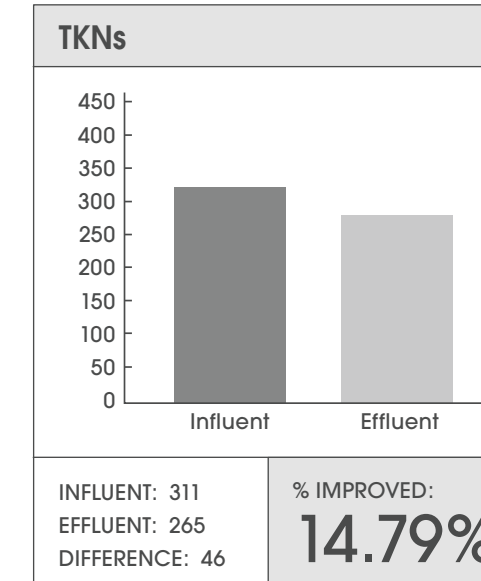
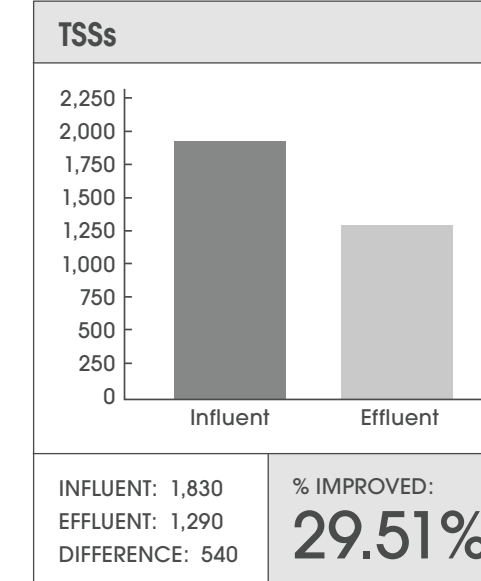
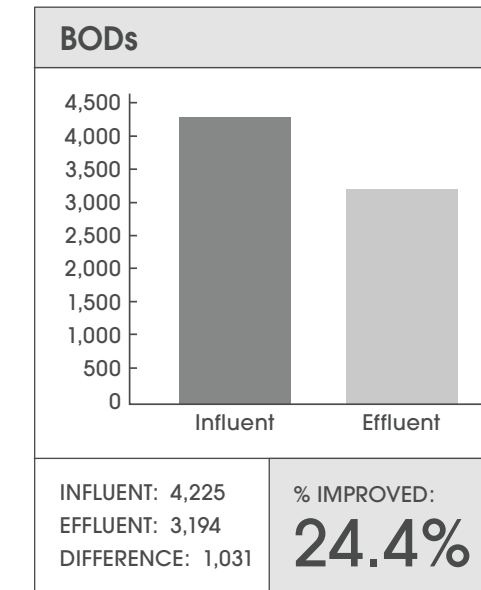
MICRO DRUM BENEFITS:

- More solids removed increases lagoon life, or reduces the load on city sewage systems
- Running rings never fail by themselves
- Rugged construction greatly reduces maintenance
- Significant potential income generation from recovered product
- Significant savings on DAF chemical and municipal costs
- Savings of 30% or more on sludge removal and handling
- Establish sustainability leadership with your customers

SUGGESTED APPLICATIONS



CUSTOMER SITE TESTING RESULTS



POULTRY PLANT WASTEWATER SAVINGS

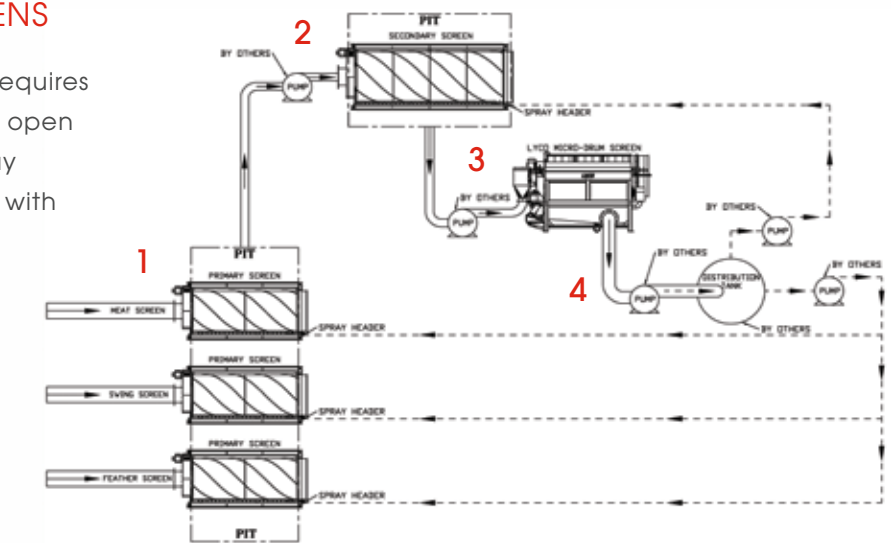
WATER REUSE WITH LYCO SCREENS

1. Primary feather and meat screening requires major volumes of water to keep screens open and operating efficiently with fixed spray manifolds, and much less water volume with Lyco Traveling Sprays.

2. After primary screening, the water empties into a pit and is pumped to a Lyco Secondary Screen.

3. The water from secondary screening is emptied into another pit and pumped to a Lyco Micro Drum with .005 in. to .008 in. screen openings.

4. A distribution tank pumps the Micro Drum screened water back to the the Primary and Secondary screens, where it is reused to keep the screens open and operating efficiently.



TOTAL SAVINGS OF \$600,000 OR MORE A YEAR*

A poultry plant like this can realistically save 600 gallons of water per minute, times the cost of \$6.00 per 1,000 gallons means that every minute of operation saves \$3.60. *Show us your water costs and we can calculate a RETURN ON INVESTMENT for your plant.

SMALLER WATER REUSE SYSTEMS

ZERO MAINTENANCE SCREENS

200, 300, and 400 Gallon/ Minute sizes.

A DUAL CANISTER FILTERING SYSTEM

Fully automated controls makes this combination the best water screen and reuse system in North America!

Poultry operations have multiple areas where this system works. **One 200 GPM application can provide a 6 MONTH ROI WITH \$225,000 IN ANNUAL WATER SAVINGS!**

ZERO MAINTENANCE WATER REUSE SYSTEM BENEFITS :

- Filters are rapidly changed on the fly
- PLC Controls option provides auto purging
- Fully automatic controls provide the best value
- Substantially reduces water consumption

For more information visit: www.LycoMfg.com

