

## SURFACE SKIMMER SYSTEMS

### The Proven Automatic Skimmer Technology for Industrial Process Systems

A Douglas Engineering **skim-pak** system is specifically designed for reliable performance in almost any size or shape of industrial process containment tank, above or below grade, closed, floating or open top; new or retrofit.

The dependable, uncomplicated system removes floating product from liquid surfaces with virtually no maintenance or monitoring.

**skim-pak** removes:

- Surface oil, kerosene, gasoline or MTBE in process water or coolant tanks.
- Specific gravity differentiated chemical layers in storage tanks.
- Surface scums, dust, fly ash or plastic particulate.
- Foam and flocculent layers from clarifiers.

With 25 years of experience Douglas Engineering has the knowledge and capability to design and build economical, efficient and reliable skimming systems.

Douglas Engineering will also design systems for unique environments including specific weir configurations to control the laminar flow and velocity.



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### The **skim-pak** Advantage

Douglas Engineering's in-tank skimmer systems are designed to handle the specific requirements of industrial process water with these important advantages.

- **Reliable Operation:** **skim-paks** work consistently and reliably for years. No reoccurring costs and long down times as with Disc and Belt skimmers.
- **Surface Attraction:** **skim-paks** attract the surface recovering the oil from the entire tank surface. Disc, belt and rope units only recover the oil they happen to touch.
- **Automatic Operation:** Optional control systems virtually eliminate operator monitoring.
- **Versatile Deployment:** Swiveled swing arm, flexible hose and telescoping options allow the skimmer systems to be application specific.
- **Rugged Construction:** System components are made of stainless steel, aluminum or ABS for maximum reliability and long service life in the harshest closed top tank environments.
- **Complete, One-Source Systems Packages:** Application-matched pumps, separators, and other accessories are available direct from Douglas Engineering.

*Skimmers that really work!*

### The **skim-pak** difference- how the system works.

In the tank, the skimmer head follows the liquid level removing accumulated floating product on demand. Designed with virtually no moving parts, the **skim-pak** system works by gravity flow or pump with a 360° removal action as shown in FIGURE 1.

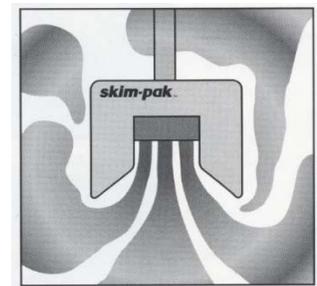


FIGURE 1. **skim-pak** 360° removal action

Types of skimmer heads available:

- **Flow-controlled weir heads** are designed to remove 100% of the surface product with minimal underlying liquid.
- **Fixed weir heads** remove only surface product leaving a user specified product layer depth in place on the underlying liquid.
- **Smart Skimmer** will detect, engage, accumulate and off load oil. No additional separator required.
- **Floating Decanters** remove supernate from SBR and other water treatment processes. The flow-controlled weir provide for the quickest possible removal of supernatant without sludge or scum.