



**INDUSTRIAL INNOVATIONS™**

Manufacturers of... **SPRA-RITE™** and **Advance™**  
automation



# Reclaim-PRO™

## Lubricant Purification and Recycling Units

### Green, Lean and Cost-Effective

Improve your bottom line and environment by reclaiming oils instead of disposing as waste. Our Reclaim-PRO coolant purification systems are known for reducing lubrication requirements by as much as 70% while also decreasing machine downtime. Our approach relies on polypropylene coalescing plates to separate oil from coolant or water by utilizing the buoyancy of the oil droplets. This helps eliminate disposal issues as no absorbents are used in the process.

### Reclaim-PRO System Features

- Proprietary simulation process used to custom design each separator
- 10+ years of field life and easy maintenance
- Low operating and maintenance costs
- Gravity-operated, no utilities are required
- Recyclable oil recovered
- Predictable performance
- Cleanable coalescing plate system
- No absorbents required
- For use with hydrocarbons or vegetable oil lubricants
- Various accessories available such as pumps, controls, coolant addition systems, etc.



System	Type	Output Capacity	Media Stacks	Dimensions (W x L x H)
MSR - 5	Portable	0.3 to 0.7 gpm	0.5	8 x 28 x 19
MSR - 11	Fixed	0.6 to 1 gpm	1	15 x 51 x 22
MSR - 22	Fixed w/fork pockets	2.4 to 4 gpm	4	29 x 100 x 34
MSR - 33	Fixed w/fork pockets	5 to 10 gpm	9	41 x 100 x 42

# MSR COALESCING PLATE SEPARATOR PRINCIPLES

MSR Coalescing Plate Separators are one of the best ways to separate two non-mixing liquids. Almost any hydrocarbon oil such as leaked lubricating oils or anti-rust oils can be removed from machine tool coolant or water.

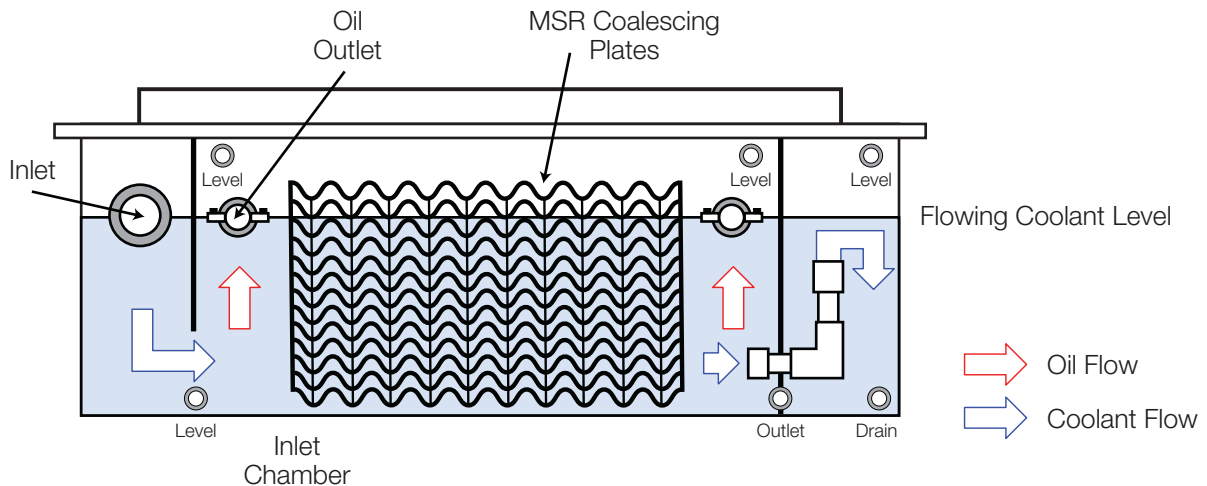


MSR Coalescing Plate modules are designed to separate oil from coolant or water utilizing the buoyancy of the oil droplets. The droplets rise within the water flow according to Stokes's Law, a mathematical relationship that allows calculation of the rise velocity based on the droplet sizes and the difference in specific gravity between the water and the oil. In general, smaller droplets and / or droplets of greater specific gravity rise more slowly.

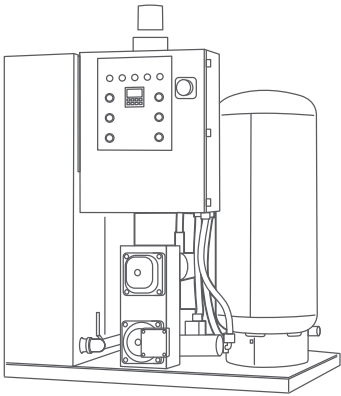
The droplets common in both coolant / tramp oil circuits are generally very small, and very small droplets rise very slowly. To facilitate good removal, the rise distance must be short. Ordinary large empty tanks or separators are not efficient at removing small oil droplets because the small droplets rise slowly and the rise distance required for separation is large.

Multiple angle Coalescing Plates are closely spaced to minimize rise distances and ensure capture of even very small droplets. The coalescing plates are made from an oleophilic "oil-loving" plastic that helps capture droplets and encourages coalescing.

The coolant flow carries the droplets into the modules where they rise by buoyancy up to the underside of the coalescing plates where they are captured. As more droplets are captured they form a layer on the plates and eventually break loose as large drops and migrate to the surface through the oil ports designed for that purpose. The oil forms a layer on the surface of the coolant and is eventually removed from the separator to the integral oil holding tank for recycling.



# ADDITIONAL SYSTEM OFFERINGS



## Proportional Mixing Stations

Compact, gravity-fed mixing station for smaller facilities.

### PRO-MIX I - Dosatron Mixing System

- Output capacity: 50 gpm

### PRO-MIX II

- Output capacity: 40 gpm

### PRO-MIX III

- Output capacity: 100 gpm

### PRO-MIX V

- Output capacity: 250 gpm

### PRO-MIX V Dual

- Output capacity: 500 gpm

### PRO-MIX V Double

- Output capacity: 500 gpm

### PRO-MIX V Triple

- Output capacity: 750 gpm

## SPRA-RITE Application Systems

### High Pressure Pedestal

- For thick, emulsified lubricants and rich dilution.

### Low Pressure Pedestal

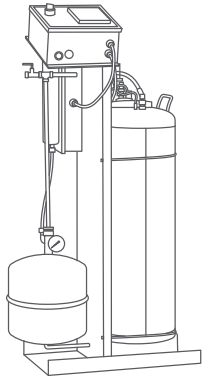
- For application of a wide variety of lubricants.

### Alpha

- Effective turnkey lube application solution suited for smaller pressrooms.

### Ultra-Lube

- For atomizing of highly viscous lubricants into ultra-fine spray.



## COMPONENTS

### Manifolds

- 2, 4, 6, 8, 10 injectors
- Quick Change Die manifolds offer “one-click” disconnect and connect of multiple hoses to die

### Alpha Controls

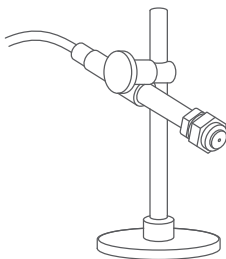
- Independent control of up to 6 injectors for volume and stroke

### Beta Controls

- Independent control of up to 48 injectors for lubricant volume, stroke count, time delay
- 200 pattern spray profiles
- Automatic or manual control

### Nozzles

- Patented SPRA-RITE HP or Ultra-Fine
- 99.5% drip-free



## Reclaim-PRO Purification and Recycling Units

Coolant purification systems separate oil from water, helping reduce lubrication requirements by as much as 70% while also decreasing machine downtime. In four different sizes.

### MSR 5

- Output capacity: 0.3 to 0.7 gpm

### MSR 11

- Output capacity: 0.6 to 1 gpm

### MSR 22

- Output capacity: 2.4 to 4 gpm

### MSR 33

- Output capacity: 5 to 10 gpm

