

# Coalescer

*The Magnus® Coalescer separates splitting oils from oil/water or oil/cleaner, solutions\*.*



**EXTREMELY EFFECTIVE**—the Coalescer is designed to use the natural specific gravity differences between oil and water, enhanced by the coalescing element, to separate one from the other.

**EXTEND BATH LIFE**—by keeping cleaning baths from excessive soil overload, the chemical additives are reduced and the overall bath life is extended, resulting in improved cleaning effectiveness. The cleaner bath provides consistently cleaner work loads by removing major contaminants.

**BUILT STRONG FOR DURABILITY**—the Coalescer is constructed of 304 stainless steel which will provide a long service life. The coalescing elements are polypropylene modules which are easily removed for cleaning when necessary. The only moving part in a Coalescer is the pump.

**COST SAVINGS**—the Magnus® Coalescer reduces the amount of cleaner required by extending bath life.

**THREE STANDARD SIZES**—to meet your demands, our coalescer is available in three standard sizes: Miji Coalescer, 5/20 Coalescer, and 10/40 Coalescer.



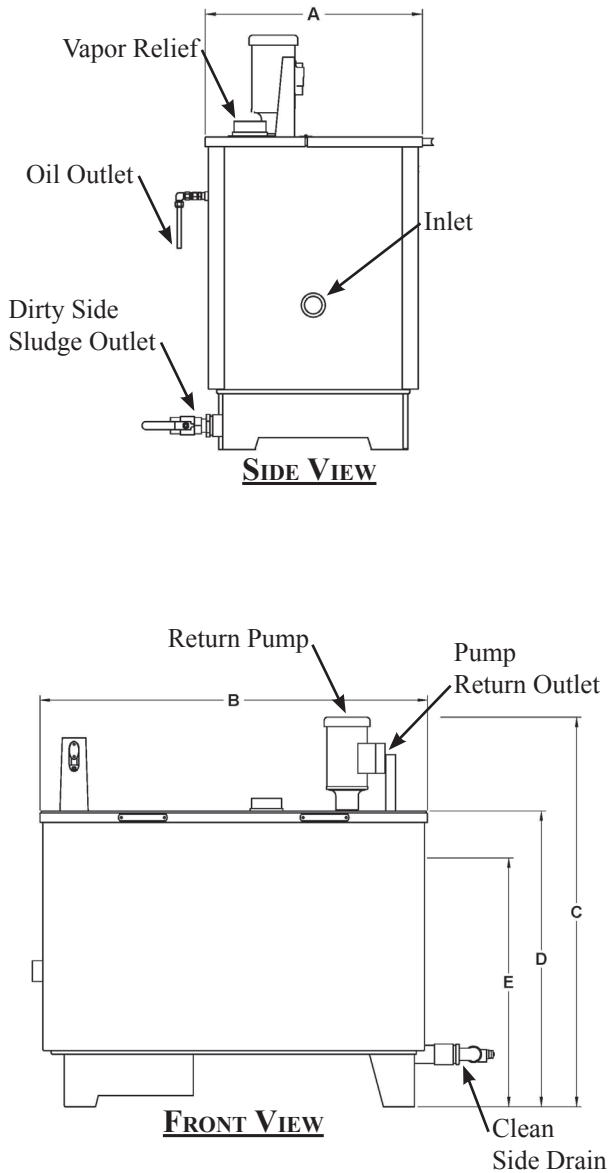
\*Oils which are chemically emulsified or soluble in water, will not be effectively removed by coalescing.

## STANDARD FEATURES

- Solution return pump
- Sloped bottom for easy sludge cleanout on 5/20 and 10/40 models

## AVAILABLE OPTIONS

- Level control
- Conductivity base chemical addition system
- Return line tank sparger



MACHINE DIMENSIONS				
MACHINE NUMBER:		Miji	5/20	10/40
		(See Notes)		
Width	A	15.00"	26.75"	26.75"
Length	B	52.75"	51.75"	51.75"
Overall Height	C	26.00"	38.50"	50.50"
Tank Height	D	26.00"	27.00"	39.00"
Liquid Level Height	E	18.00"	20.00"	32.00"

SERVICE CONNECTIONS			
Solution Inlet (NPT)	0.50"	2.00"	2.00"
Outlet (pump return) (NPT)	0.50"	1.00"	1.00"
Dirty Side Sludge Outlet (NPT)	0.50"	2.00"	2.00"
Oil Outlet (tube)	0.50"	0.50"	0.50"
Clean Side Drain (NPT)	0.50"	2.00"	2.00"
Vapor Relief (diameter)	4.00"	4.00"	4.00"
ELECTRICAL SUPPLY: (other voltages available)			
240V/3/60Hz		3A	3A
480V/3/60Hz		2A	2A

GENERAL DATA			
Tank Wall Thickness (ga.)	#12	#12	#12
Rated Flow (GPM)	1	5	10
LIQUID CAPACITY:			
Maximum (gal.)	36	65	120
Minimum (gal.)	23	45	70
Surge	13	25	50

**NOTES**  
 Miji Coalescer uses external horizontal pump, has lift-off lid (not hinged), and does not have a sloped bottom standard.

**OPERATION DESCRIPTION**

1. Solution from wash tank exits through an overflow trough.
2. Gravity pulls solution to the dirty side of the coalescer, a baffle minimizes turbulence.
3. As the liquid slowly passes through the polypropylene coalescing elements, the oil coalesces into droplet and rises to the surface.
4. The cleaned solution exits the dirty side of the tank by passing under a baffle.
5. The solution overflows a weir that maintains the liquid level and goes back into the a clean surge tank.
6. Solution is pumped from the clean surge tank back to the wash tank.

