



VSS Emultech® Emulsifier Systems

A Key to Quality, Consistent Emulsion Production

Two skid-mounted versions are available. One is the **Concentrated Soap System** that allows the making of a soap concentrate, that is then diluted with water in separate dilute tanks to make final soap solution. The **Emulsifier Soap System** skid-mounted version contains one or two poly tanks that allow the making of a soap concentrate or a dilute soap solution all in one tank.

The **Concentrated Soap System** utilizes a stainless steel tank, mounted on load cells. The load cells provide for very precise measuring of water, emulsifier and pH modifier chemicals and any other additives. High temperature mixing capabilities are allowed with the stainless steel tank. An aggressive mixer promotes rapid mixing, and hot oil heat coils in the tank can be used to quickly re-heat or increase temperature if required.

The **Emulsifier Soap System** can be provided with 1,100 or 2,500 gallon (4,165 or 9,465 liter) tanks, either with one or two tanks. A pair of scales are provided, one for emulsifier and one for pH modifier. The barrel or shipping tote is placed on the scales and liquid is pumped into tanks using the scales to measure the amount.

With sufficient size of dilute tanks, the **Concentrated Soap System** can provide for continuous operation. While the emulsion plant is running with the first batch of soap, a second batch of soap is prepared and diluted in a second dilute tank. VSS can supply poly dilute tanks, complete with piping and all required valves.

The **Emulsifier Soap System** can also provide for continuous operation for smaller sized emulsion plants. It is provided with piping and all necessary valves and can be mounted all on a skid with the scales, controls and pumps.

PLC-controlled emulsifier systems are available for applications with very large volumes of a small number of products.



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CSS DIMENSIONS

| | | |
|-------------------|---------|---------|
| Total Unit Length | 4267 mm | 168 in. |
| Overall Width | 1626 mm | 64 in. |

ESS DIMENSIONS

Basic Controls & Scales Skid

| | | |
|----------------|---------|---------|
| Overall Length | 3861 mm | 152 in. |
| Overall Width | 1829 mm | 72 in. |

1 Tank Skid w/ Scales & Controls

| | | |
|----------------|---------|---------|
| Overall Length | 6706 mm | 264 in. |
| Overall Width | 2286 mm | 90 in. |

2 Tank Skid w/ Scales & Controls

| | | |
|----------------|----------|---------|
| Overall Length | 10211 mm | 402 in. |
| Overall Width | 2286 mm | 90 in. |

SPECIFICATIONS

| | | |
|-------------------------------------|------------------|----------------|
| Concentrate Soap Tank | 2,270 liters | 600 gallons |
| Dilute Soap System Tanks | 6,050 liters | 1,600 gallons |
| | 9,840 liters | 2,600 gallons |
| Emulsifier Soap Tanks | 4,165 liters | 1,100 gallons |
| | 9,465 liters | 2,500 gallons |
| Chemical Pumps Pneumatic Diaphragm | 40-80 lpm | 10-20 gpm |
| Emulsifier Pump Pneumatic Diaphragm | 40-80 lpm | 10-20 gpm |
| Soap Pump Poly centrifugal | 300 lpm | 80 gpm |
| Mixer | Electric Powered | |
| Air Compressor | Single stage | 5 hp |
| | | 60 gallon tank |



OPTIONS

- Various size Dilute Tanks (plastic or stainless steel) on a skid with valves and plumbing
- Electric or Hot Water Heating for Dilute Tanks



VSS reserves the right to make changes in specifications at any time as part of our continuing program of product improvement. © 2020

