



LAS-E350 Continuous Liquid Additive Skid

LAS-E350 system features

1. Detachable and modular design. The skid base is an integral piece and the additive tank is detachable. The module mainly consists of additive tank module, pump module, electricity driving module, and control module. The modular design makes Serva LAS-350 system easy and quick to install, disconnect, and transport.
2. A MOYNO type screw pump is used as the liquid additive pump. It is reliable and has a high volumetric efficiency when pumping different kinds of additives with various viscosities.
3. This system uses electrical motors to drive the chemical pumps and agitators.
4. The power for its driving system required is 380V/50HZ or 440V/60HZ.
5. The amount of liquid additives added into the suction port of the mix water pump of the cement pumping skid (truck) changes with the fluctuation of the mix water flow rate. The screw pump measures the amount of the liquid additives added, and the programmable controller of Serva LAS-350 system automatically adjusts the flow to ensure the reliable and accurate addition of the desired liquid additives.
6. For the convenience of transportation and storage all the modules can be placed together in a standard container.
7. The control cabinet for the skid base has a manual control system; it is designed as a backup system in case the auto control system fails to work.
8. Each tank has an electrical motor driven agitator to prevent chemicals from settling.

Scope of Applications and Features

The LAS system is designed to continuously add liquid additives into the slurry during the process of offshore or inland oilfield cement jobs. It greatly simplifies the storage of base cement materials. The system makes it possible to satisfy various cement jobs that have different technical requirements with only one grade of cement material stored.

The LAS system is a more scientific and rational solution to liquid additive addition. In addition, the LAS system is the most common practice introduced by many the major cementing companies.

For a specific cement job, first input into the programmable controller parameters for additive and its proportion. The Serva LAS system automatically delivers the desired amount of each kind of additive in accordance with the flow rate detected from the cement pumping skid (truck). It is more convenient and less costly than the regular practice because the system ensures the slurry is strictly made up according to the real amount required for a cement job. It reduces the amount of liquid additives usage and also helps protect the environment (less disposal of unused material).

MAIN SPECIFICATION

Total Weight.....9240 lbs
 Overall Dimension.....20 ft (L) x 6.6 ft (W) x 9.7ft (H)
 Voltage.....380v/50hz or 460v/60 hz
 Electrical Motor.....Explosion proof type motor
 Metering Pump.....Roper 71000 series screw pump
 Agitators.....0.75 kw, gear box ratio 20 : 1, speed : 75rpm

CONTROL SYSTEM

Computer.....Ab plc Panel view 6"color screen
 Invertor.....Abb-acs400 Series



LAS-E350 Continuous Liquid Additive Skid

	SCREW PUMP			
	<u>Pump Modular One</u>	<u>Pump Modular Two</u>	<u>Pump Modular Three</u>	<u>Pump Modular Four</u>
Model No.	713025	71201	71202	71205
Working Speed(rpm)	200-1200	200-1201	200-1202	100-900
Displacement (gpm)	0.52-3.12	1.72-10.32	4.04-24.24	5.2-46.8
	TANK			
	<u>Pump Modular One</u>	<u>Pump Modular Two</u>	<u>Pump Modular Three</u>	<u>Pump Modular Four</u>
Length	42	42	42	82
Width	48	48	48	48
Height	51	51	51	51
Volume	350	350	350	550
	INVERTER MOTOR			
	<u>Pump Modular One</u>	<u>Pump Modular Two</u>	<u>Pump Modular Three</u>	<u>Pump Modular Four</u>
Model No.	Fbfc-3.7-4p	Fbfc-3.7-4p	Fbfc-5.5-4p	Fbfc-5.5-6p
Power (kw)	3.7	3.7	5.5	5.5
Max Speed	1440	1440	1440	960