

LIME



ELECTRIC FRAC DESIGN BLENDER



LIME INSTRUMENTS

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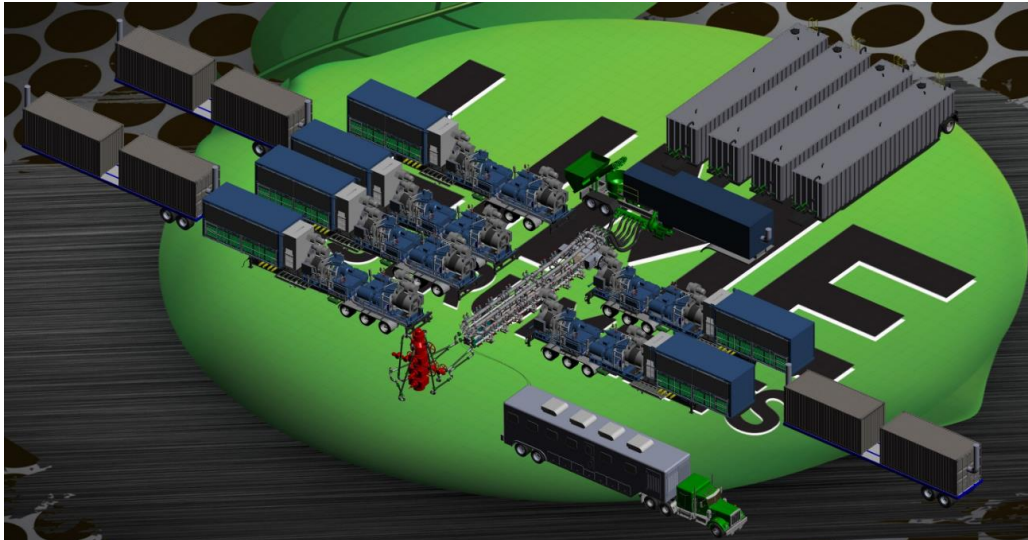
Lime offers a distributed and modular electric frac design that allows for better reliability and better mobility than other proprietary solutions. In addition, this technology can be licensed to any service or manufacturing company. Design includes:

- AC motor
- VFDs
- Generator
- Gas turbine
- Controls system

LIME INSTRUMENTS

ELECTRIC BLENDER

The Lime electric blender design removes the hydraulic circuits from a blender and replaces it with AC driven pumps, augers, actuators, and agitator. In addition, the electric blender includes an integrated power pack that supplies all the power needs for the blender and any other process equipment as needed.



ELECTRIC BLENDER SPECS

- 120 BPM
- 1.2 MW Power Pack (480 VAC)
- Gel/proppant/chemical mixtures
- 8 liquid chemicals
 - (8) injection into tub
 - (3) injection into suction piping
 - (4) injection into discharge piping
- 2 dry chemicals
- 3 Augers
- AC circuits drive:
 - 600HP discharge pump
 - Suction pump
 - Tub agitator
 - Proppant augers
 - Sand screw gate actuator
 - Auger assembly (raise/lower)
 - Process valve actuators
 - Dry chemical feeders
 - Liquid chemical pumps
 - AC- Operations, power, & generator cabins

CONTROLS COMPONENTS

- Ruggedized controller with real-time support for deterministic control, logging, and analysis
- (1) Local control console with (2) 15" touch panel displays for equipment control & monitoring
- Control console comes with Auto/Manual switches and supports fully manual or auto

SOFTWARE COMPONENTS

- **LIMEBLENDER** control system is designed to run from up to 8 liquid chemicals with 2 dry chemicals in either manual or automatic control based on user-defined stages
- Windows 7 embedded software designed to run the (2) touch screen PC interfaces from either the console inside the cabin or from the Datavan



BUILDING LEADING-EDGE CONTROLS AND INSTRUMENTATION SYSTEMS