

ea|epiphergy

Developing Sustainable Alternatives to Fossil Energy

E-Fuel MicroFueler Operations

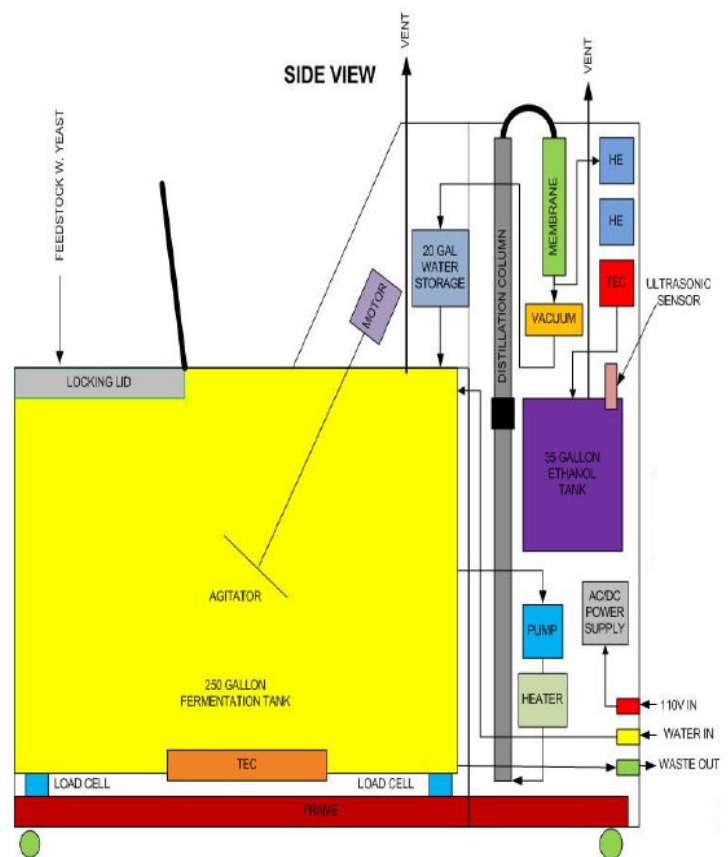
The easy way to produce up to 70 gallons of high-quality, low-cost ethanol fuel per week.

The principles of ethanol production (fermentation and distillation) have been well understood for hundreds of years, and as a result, there are several “brew it yourself” home ethanol fuel kits available today. However, only the MicroFueler™ includes feedstock, user-friendly controls, and a “set-it-and-forget-it” operating mode to consistently produce high quality ethanol fuel with a minimal amount of user input.

Ethanol fuel is 194+ proof (97% ABV) ethanol, with several impurities that make it undrinkable.

Fuel-grade ethanol is undrinkable. Far from having “vodka-like” characteristics, it smells at least as bad as gasoline and you would never want to get it near your nose or mouth. However, it is much safer to handle than gasoline.

- **The MicroFueler is as easy to install and use as a dishwasher or washing machine.**
- **Feedstock** is loaded through the top of the fermentation tank.
- **Water** enters the MicroFueler (as needed) through the “Water In” fitting. Well water and public (municipal” water are acceptable.
- **Wastewater** exits the MicroFueler through the “Water Out” fitting and into any approved sanitary sewer or septic system.
- **Electric Requirements** are compatible with standard household current 110V / 15A.
- **Automated Fuel Production** is managed by built-in computer controls and 30+ sensors.
- **Energy Efficiency** is excellent, typically 3-4 kwh per gallon of ethanol fuel produced.
- **Ethanol Fuel** can be dispensed directly into vehicles via on-board pump and 50’ hose.



Feedstock Options:

EFuel100-FM feedstock can be purchased through Epiphergy. In addition, Epiphergy’s MicroFueler™-based solutions offer support for multiple feedstocks, including: brewery waste, discarded alcohol, food waste, grains (corn, etc), and cellulosic biomass. Customers can significantly reduce their ethanol fuel production costs by using “waste” feedstocks.

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