

We've Gone... And Done It, Again

If you're running a hemp growing operation spread over multiple locations, permanent drying installations can be cost prohibitive. BD Energy offers the Mobile Sun Hemp Dryer. An unparalleled, self-contained, mobile drying solution, designed to be deployed where and when you need it, with minimal setup or delay.

OVERVIEW

- Two (2) 53-foot trailers.
 - Trailer 1, dedicated to drying the plant material, and recovering the product
 - Trailer 2, dedicated to supplying power, heat, air filtration and fines recovery.
- Estimated productivity: 25 tons of wet plant matter an hour.
- Operational parameters are controlled by an Allen Bradley PLC, with fully customizable operation through VFD motors, moisture, temperature and pressure sensors, displaying process data through a HMI.
- State of the art multi-phase filtration system, designed to recover particles down to 5 microns.
- Remote start/stop controls & monitoring capabilities
- Services and maintenance programs available upon request



Total Length (each trailer):	53 feet
Height:	13 ft 6 inches
Gross trailer weight (unloaded):	40,000 lbs
Power/Heat source:	3 Capstone C65 Propane Turbines (see specifications)
Hitch Type:	Fifth Wheel
Lead Time:	Contact BD Energy
Cost:	Contact BD Energy



FAQ

Q: How is this different from what's on the market?

A: We are a self-contained, mobile, hemp drying system. Passing 125F air through a fluidized bed of shredded hemp, which is moved from the intake hopper to the bagging stage by a series of custom designed augers. The moist air is passed through a system of cyclonic filters where any particle larger than 5 microns is recovered.

Q: What does the drying system include?

A: Two trailers, one for drying, the second with power and air filtration equipment.

Q: How is power supplied in the field?

A: Three propane Capstone C65 Microturbines are on the power trailer. They supply the electrical power for all the equipment and the heat for drying the hemp. Customer must supply HD5 commercial grade propane fuel.

Q: Do you supply the "super sacks" or bagging equipment?

A: No, the customer supplies the receiving bags for the dried product.

Q: Is a technician or expert needed to start the turbines?

A: We supply training and commissioning for each system, onsite. Remote dial in access is designed into the system so offsite experts can access the controls and assist after initial commissioning.

COMPONENT SPECIFICATIONS

Dryer Trailer Components	Power Trailer Components
Heat Exchanger with 10,000 CFM Fan	Three Capstone C65 Microturbines, With Built-in Redundancy.
Controlled Feed Hopper	28,000 CFM Fan
Intake and Discharge Airlocks	Bagless Air Filtration, Particle Recovery with Discharge Airlocks
Auger Based Fluidized Bed	High Level Controls System
Allen Bradley PLC with HMI System Controller	
304 Stainless Steel and Powder Coated Product Contact Surfaces Throughout.	

Q: How do you know when the hemp is dry?

A: There are moisture sensors embedded into the drying bed to monitor the quality of the hemp.

Q: How much Propane do the C65s use?

A: A 2,000-gallon tank should provide enough fuel for 65 hours of continuous operation.

Q: Is onsite assembly required?

A: Yes, some assembly is required for the ducting and power/communications cables.

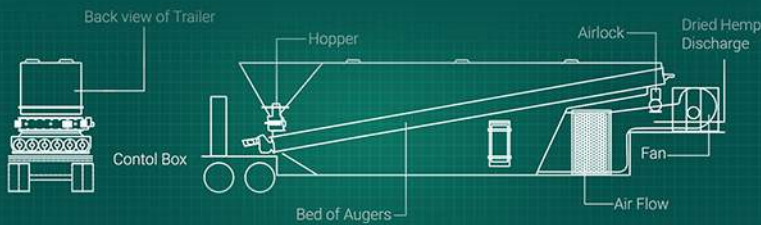
Q: How is the wet hemp loaded?

A: Customer supplies a conveyor (similar) to load the pre-processed wet hemp into the top of the dryer trailer (opening is 8ft x 8ft, 13.5ft off the ground).

Q: How do we start the system?

A: Full training is provided to start and operate the system. The system is operated locally, with remote monitoring and assistance available from an offsite dial-in expert.

Dryer Trailer



Power Trailer

