



## RENEWABLE ENERGY & BIOMASS ENERGY SPECIALISTS!

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[Tuesday, September 29, 2015](#)

### STAK-40K Stratified Downdraft Gasifier (Price: \$11,495)



**Gasification is a proven technology that helped millions of people survive during the Second World War. Gasification allowed farmers to grow crops, food to be transported, and electricity to be generated. During the fuel shortages of World War II, more than one million vehicles were powered by wood.**

In the hands of a knowledgeable operator, our improved design biomass gasifier will enable the user to power engines for vehicle transport and “off grid” power generation. It can be used in endless thermal applications where LP (Propane) or natural gas is currently used. For these reasons, our biomass gasifier is perfect for emergency situations where no fuel is available to anyone.

Although wood chips are the preferred gasification fuel, our gasifier can successfully produce fuel from many materials like, mill cut-offs, corncobs, corn stover, straw, peanut husks, walnut shells, dense biomass pellets, and exec.

## Product Features

- Downdraft gasification design, compact structure, high efficiency, and simple operation.
- Fuel can be added conveniently while simultaneously generating gas. There is no need to shut down to add more fuel, ensuring consistent operation for the user.
- Exceptional filtration system, utilizes proprietary "wet" gas scrubbing technology, as well as multiple packed bed filters. This system ensures that the tar content, ash content, and moisture content of the gas is kept to a minimum and the gas is clean.
- The unit can be started without relighting up to 20 hours later, simply by opening the air entry and turning on the blower.

## Technical specifications

	Model	STAK-40K
Approx. BTU/hour		300,000
Gas output via blower (m3/h)		30 - 80
Rated horsepower		65

Peak gas output via engine (m3/h)	120
Material required (Lb/hr) blower only gas production	20 - 68
Material required (Lb/hr) at peak HP through engine	140
Gas calorific value (KJ/m3)	4600-5200
Gasification efficiency	>70%
Gas pressure	1200Pa
Standard analysis of gasses	CO:18%, H2:6-10%,CH4:2%

## Price

**\$11,495**

### Items included

- Downdraft gasifier unit
- Gas cooler and filtration units
- Blower assembly
- Hot air heat exchanger
- Liquid heat exchanger
- Table top stove for emergency situations, cooking, or experimentation.

- High temperature gaskets, valves, and assembly bolts
- Gasifier cleaning and operating tools
- Gasification information CD with operating and instruction manual and assembly and operation video

## Items not included

- Hose barbs and hose

## Limited Warranty

## Shipping information

Please contact us for an estimate

## Save harmless agreement

Because the use of the materials, instructions, and information being sold is beyond our control, the purchaser or user agrees, without reservation to save STAK Properties LLC, its agents, distributors, resellers, consultants, promoters, advertisers or employees harmless from any and all claims, demands, actions, debts, liabilities, judgments, costs and attorney's fees arising out of, claimed on account of, or in any manner predicted upon loss of or damage to property, and injuries to or the death of any and all persons whatsoever, occurring in connection with or in any incidental to or arising out of the purchase, sale, viewing, transfer of information and/or use of any and all property or information

**Please [contact us](#) with any questions that you may have by filling out the form below. We will be happy to discuss your project with you.**

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