

## “Walder Mfg.: “Crushed” Beans For Profit

Walder Mfg. has been very successful in marketing oil screw presses for farmers and the commercial market. With the high price of beans, you have to have a lot of benefits to sell a system to farmers. For the dairy industry, pressed meal is far superior to chemically-produced meal. The best indicator is the bottom line. Walder customers see butterfat increases from 3.7% to 4.2% because the crushed bean meal more digestible. Milk production is also slightly increased.

Walder Mfg. designed a double press systems for soybeans for better bypass protein, more oil (over one gallon per bushel), and double output capacity over single pressing.

What about payback? On this investment, the meal is a “wash”. Meaning the price of the seed has the same value as the meal. So, the oil is your “profit” or what pays the bills. The commodity market oil is currently about 58¢ a pound times 1.1 lbs. per gallon equals \$4.46 a gallon. If you burn your own oil, the market value is the off-road diesel fuel price.

Walder Mfg. has experience crushing sunflower, flax, canola, camelina, mustard, soybean, milk thistle, cottonseed and pecans.

Walder Mfg. sells 2, 6, 8, and 20-ton presses with the price about \$1,000 per ton.

The 20-ton press produces 864 gal. of oil in 24 hours.

Mark and Ed Walder also operate presses on their farm. Seven years ago they made and burned 600 gallons of oil on their farm. This past year, they processed 3,500 gallons of oil and burned it in all diesel engines – even in a 2012 engine with a rail-injected D.E.F. particulate filter – with no problems. Dan Mcmoil in Kansas burns sunflower oil using gas to cut the glycerin. For more information on Dan’s method go to [www.oilcrusher.5u.com](http://www.oilcrusher.5u.com).

Contact: Walder Mfg., 1525 S. County Road I, Wittenber, Wis. 54499 (ph 715 454-6458; Mark’s cell 715 581-1525; Ed’s cell



Walder Mfg. set up a pair of 8-ton presses in one of their farm buildings and, after 3 years, are now custom-pressing soybeans for 8 local farms. At a rate of 7.7 lbs. of oil per gal., payback is \$979 in 24 hrs. plus you have valuable meal for your herd.

715 581-5439; Ed’s email: [waldermfg@wittenbergnet.net](mailto:waldermfg@wittenbergnet.net); Mark’s email: [waldermfg@wi-net.com](mailto:waldermfg@wi-net.com); [www.waldermfg.com](http://www.waldermfg.com)).

Reader Inquiry No. 168

## “Cleanest-Burning Wood Furnace In The World”

No wood burner on the market burns cleaner than the Kuuma Vapor-Fire 100, in-house furnace, according to the manufacturer.

The hot air furnace recently tested out at 86 percent heat transfer efficiency, 98 percent combustion efficiency, and produced less than a gram per hour of particulates. At a slow burn it did even better with an overall combustion efficiency of 98.1 percent. The smaller Vapor-Fire 200 scored even better than the model 100 at 99.4 percent.

Daryl Lamppa says the furnace is unique to the industry. “Ours is the only non-boiler, wood gasification furnace in the industry that we are aware of.”

Unlike other true gasification burners, logs in the fire chamber of the Kuuma burn at a controlled rate from front to back. Controlled release and ignition of the gases, liquids and vapors result in near complete combustion. Kuuma furnaces are designed to burn on low (3 to 4 lbs. of wood per hour), medium (5 to 7 lbs./hr.) or high (8 to 9 lbs./hr.), depending on outside temperatures.

Heated air is fed into the furnace plenum for distribution throughout the house. Lamppa explains that the fan in the plenum runs at a constant 500 cfm once the furnace is hot enough. When the house thermostat

calls for more heat, it kicks up to 1,500 cfm until the thermostat reaches the desired level.

Lamppa explains that it’s the 24-volt, computer-controlled, constant burn that produces a near complete burn with practically no polluting particles. It’s when wood smolders that creosote and other pollutants are produced.

“If you see smoke, you have creosote being produced,” says Lamppa. “Ours produces practically no visible smoke once the fire starts and no creosote when using seasoned firewood. We take our stovepipes apart once a year and just blow the dust out.”

Although Lamppa and his father Herb have been making the Kuuma Vapor-Fire 100 for 28 years, they only recently sought efficiency certification. “We knew it burned clean, but in order for it to qualify for the 2009 to 2010 Home Energy-Efficiency Improvement tax credit, it needed to be certified. We now know this is the cleanest-burning wood furnace in the world.”

The Kuuma Vapor-Fire 100 is priced at \$4,350. It stands 50 in. high, 32 in. wide and 52 1/2 in. deep. The slightly smaller Kuuma Vapor-Fire 200 is priced at \$3,850.

Contact: FARM SHOW Followup,



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