

## Color Back Paint Renewer

Color Back has been putting smiles on customers' faces for more than 22 years. The clear liquid sprays on old equipment to bring faded paint back to its original luster in just minutes.

Color Back can also be used to keep new equipment looking like new for years. You can spray it onto everything but the glass. Comes in aerosol cans, quart or gallon containers and can be applied with a conventional paint gun, airless paint gun, or aerosol cans.

In the U.S., contact: Apollo Sales & Service Inc., Box 1113, Bismarck, N.Dak. 58502 (ph 800 283-4521; fax 701 258-1788; email: apollosales@aol.com; website: www.colorbackpaintrenewer.com).

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Reader Inquiry No. 05



Cledus Wiedrich is getting dad's equipment ready for his retirement auction.

## “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. These results make both stoves eligible for tax credits of up to \$1,500 for purchase and installation.

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 gas 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 250 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.”

To qualify for the tax credit, wood stoves and furnaces must have a thermal efficiency rating of 75 percent or above and emissions of less than 7.5 grams per hour for non-catalytic models and 4.1 grams per hour for catalytic models. At 84 percent thermal efficiency, the non-catalytic Kuuma 100 is 5 percent ahead of even the most efficient catalytic wood stove on the EPA certified list of tax credit approved wood stoves. At less than a gram of particulates, no other non-catalytic stove comes close and only a handful of pellet/catalytic models burn cleaner. As low as .45 grams per hour and an average of .7 grams per hour.

Another sign of an efficient burning furnace is that you burn less wood, notes Lamppa. Even with a continuously burning design, he says the Kuuma takes half the wood of a conventional non-gasification furnace.

“We had a mild winter this year, and I left my furnace set at the low setting all winter,” says Lamppa. “I have a 3,200-sq. ft. house, and I only burn 4 to 5 cords of wood a year.”

The Kuuma Vapor-Fire 100 combustion chamber is only 23 in. long by 15 1/2 in. wide by 20 in high. The fire door is 12 in. by 12 in. and takes a maximum wood length of 22 in. Even with that limited size, Lamppa says that when set on medium burn, a single hardwood fill will last for



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10 to 12 hours. Hardwood coals will last another 6 to 12 hours. When reloading the chamber, coals are simply pulled forward before fresh wood is added. Once the door is shut, the logs quickly ignite and burn at the preset rate.

“I have customers who tell me they light their furnace once in the fall and never light another match all winter,” says Lamppa.

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.

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