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## **John Deere “Power Source” Volume 3, 2001**

The excerpt below contains the cover page and inside cover only.

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“England orders John Deere-powered incinerators to fight Foot-and-Mouth disease”



JOHN DEERE

# PowerSource

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Vol. 3, 2001

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planes in the world. The shipment received international attention from news media, including the British Broadcasting Corp., *The Irish News*, as well as all the major media organizations in the United States. Air Burners builds two distinctly different air curtain incineration systems. The S-Series machines are self-contained systems that make use of a refractory-lined "fire box" enclosure. The T-Series is a trailer-mounted unit and is used in combination with an earthen pit or trench made to function as an incineration chamber. The incinerators shipped to England included three T-350 trench burners and two S-121 fire box models. The large S-series models are capable of disposing up to six cattle or 20 sheep carcasses per hour.

# Putting A Stomp On Foot-and-Mouth Disease

*John Deere-powered incinerators help prevent disease spread in England*

Great Britain recently enlisted the help of a Florida equipment manufacturer to control the disastrous outbreak of foot-and-mouth disease in the country.

Air Burners Inc. LLC of Palm City designs and manufactures Air Curtain Incinerators for waste material. Although the company's incinerators are primarily used for the disposal of wood debris, five of the company's incinerators were flown to England to assure the sterile and safe disposal of diseased animal carcasses. More than 200,000 animals had been slaughtered in England to eradicate the disease among livestock.

The request for the incinerators came from the Ministry of Agriculture, Food and Fisheries in London. Air Burners Inc. loaded the five John Deere-powered incinerators onto a giant Russian Antonov cargo jet, one of the largest transport

The incinerators work, in essence, by burning waste at temperatures near 2,500 degrees Fahrenheit, explains Brian O'Connor, CEO and president of Airburners. Fans powered by the John Deere engine create an air curtain that traps the smoke and particulates, where it's continually reburned. The air flow also oxygenates the fire, making it hotter. The result is a more complete combustion, which reduces waste to 2 percent of its original volume with little smoke emission.

O'Connor says his incinerators also have been used for clearing the aftermath from storm damage. But they are more commonly used in the

construction industry where they have been instrumental in reducing land-clearing costs. "Raw material that goes into our machines is reduced by 98 percent," explains O'Connor. "What's left is sterile ash that can be either hauled to a landfill or incorporated into the earth. That's more efficient than hauling wood debris to a dump. If it costs \$45/ton to dump at a landfill, and you're hauling 10 tons per hour, eight hours a day, you'll save \$3,600 a day."

O'Connor says the machines are also being purchased by the U.S. government to incinerate wood debris collected from the forest floor of several national forests to minimize fires and the intensity of them.

The patented air-curtain incinerators are built in Palm City, Fla., and the company also has offices in Malaysia to help with the distribution and sales in Europe. "We changed over to John Deere exclusively seven years ago because the engines have a terrific reputation around the world," says O'Connor. "We're also able to get support for the engines anywhere."

O'Connor recalls demonstrating an incinerator in a tropical rain forest for the Department of Environment in Malaysia. A fuel injector on the engine needed attention. So a call was made to a John Deere dealer, located four hours away by Jeep. The dealer responded to the call quickly, and was able to diagnose the problem and fix it within hours.

"The team did a stunning job of getting a new fuel pump installed," relates O'Connor. "That's the type of support you want as an OEM."

**Engines:** John Deere 4020D – a 44-hp, 4-cylinder, 2.0 L, naturally aspirated engine; PowerTech® 4045D – an 80-hp, 4-cylinder, 4.5 L, naturally aspirated diesel; PowerTech 6068D – a 125-hp, 6-cylinder, 6.8 L, naturally aspirated diesel.

**Distributor:** CK Power Products of Florida, Ocala, Fla., (352) 237-7660.

Above, left: A John Deere-powered incinerator is loaded on a giant Russian Antonov cargo jet. Five incinerators were flown to England to help eradicate Foot-and-Mouth disease in the country. Below: An S-127 incinerator is one of the largest built by Air Curtain Inc. of Palm City, Fla., and is powered by the John Deere PowerTech 6068D.

