

"ALLOWS US TO HEAT OUR WHOLE HOUSE WITH A SMALL WOODSTOVE"

Wood Stove "Boot" Saves Lost Heat

"Our wood stove was making use of only about 15% of the available heat. The other 85% was going up the chimney," says Albert Johnson, of Erhard, Minn., inventor of a new "Heat Boot" for wood stoves that captures heat between the stove and the flue exiting the home.

"When people come on our farm, they ask what type of stove we use because there's no smoke coming out of our chimney. They don't believe it when we say we're heating our whole house with a small Franklin wood stove. Before we installed the heat boot, we could just barely heat one room with it. We used to use about 1,500 gal. of heating oil a year. Last year, we burned just 125 gal.," Johnson told FARM SHOW.

Essentially, the Heat Boot consists of 33 small pipes enclosed in a rectangular chamber that mounts in-line with the flue on top of the wood stove. As hot air rises up out of the stove and through the small diameter pipes, a small squirrel cage fan behind the pipes blows air across them and into the room. All smoke and gases pass out of the heat exchanger pipes and into the standard flue pipe exiting the room.

"It restricts air flow within the stove so that the wood burns more efficiently. We estimate that we're actually burning 60% less wood while gaining the additional heat. And yet, unlike many of the air restrictive heaters, it almost completely eliminates creosote build-up. In the four years we've had our Heat Boot installed, we've never had to clean our chimney."

Much of the residue is deposited in the 33 heat exchanging pipes, which must be cleaned out periodically with a set of pipecleaner type brushes. The brushes are passed through each of the pipes which are reached by removing a top access panel. The whole



These 33 pipes mount between the stove and flue and are enclosed in a metal chamber. Smoke and ash pass up through them while room air is heated as it blows across them.

process takes just a few minutes, according to Johnson.

The Heat Boot is 18 by 14 by 16 in. in size. Johnson says it costs him about 13 cents a day to run the thermostatically-controlled fan behind the unit.

Johnson also mounted one of his units in the ductwork on his oil furnace, which is an old converted wood central heat furnace. He says it captures enough heat to pay for itself, even though the oil furnace is seldom used.

Johnson's Heat Boot is being produced by Concord, Inc., a Fargo, N. Dak., manufacturer. Retail cost is \$225.

For more information, contact: FARM SHOW Followup, Concord, Inc., 2800 7th Avenue North, Fargo, N. Dak. 58102 (ph 701 280-1260).



In only about 15 min. row units can be added or removed in switching the Nodet from one crop to another.

"NODET" PLANTS CORN, COTTON, BEANS AND VIRTUALLY ALL OTHER ROW CROPS

One Planter Does It All

If you grow sugar beets, cotton, sorghum or sunflowers — in addition to corn and soybeans — you can plant them all with the new Nodet vacuum planter, introduced by WIC, Inc., of Halstad, Minn.

"It's the first and only planter we know of that will plant virtually any row crop with precision seed depth and spacing accuracy — at speeds up to 8 mph," says Chuck Holmquist, general manager of WIC.

He notes that, "other row crop planters on the market are designed to handle only one or two crops without a lot of changeover and readjustment. With the Nodet, one planter does it all — and with the same precision-accuracy you get in the best corn-soybean planter, the best 'sugar beets only' planter, or the best 'cotton only' planter."

Developed in France, the Nodet has been sold in Europe for the past 12 years. Several years ago, an Illinois-based firm tried unsuccessfully to sell the idea of mounting new Nodet planting units on older-model Deere and other plate-type planters. "We're marketing a totally new concept — new Nodet units on new toolbars, all designed and built from scratch as a package unit," explains Holmquist. "We hope to have prototype pull-type units, with folding wings, in the field this spring."

Holmquist cites these additional key features of the Nodet planter:

- Change plant population in seconds. To make a population or seed spacing change, you simply flip a lever.

- Accurate planting depth, seed spacing. Operating off a pto driven vacuum fan, the Nodet accurately places seeds a pre-set distance apart at travel speeds up to 8 mph, says Holmquist.

- Low maintenance requirements. Because it has few moving parts, upkeep costs are low, says Holmquist.

The Nodet is currently available in 3 pt. toolbar models in sizes up to eight 30 in. rows. A 12 row toolbar model (30 in. rows) will be introduced soon. Its outside three rows on each side fold for transport.

"Cost of the versatile Nodet runs about 10 to 15% higher than similar size Max-Emerge or Cyclo planters," Holmquist points out. "We're not claiming the Nodet is better than the Max-Emerge or Cyclo in corn, but we do think it's just as good. In all other row crops, including soybeans, we think the Nodet will outperform all other planters on the market."

For more details, contact: FARM SHOW Followup, WIC, Inc., Box 26, Halstad, Minn. (ph 218 456-2191).

REQUIRES NO ELECTRICITY OR AIR PRESSURE

New "Affordable" Tire Changer

"Probably the most exciting feature about our tire changer is its low price tag," explains Jackson Ideen about his company's new model 100 Self-Change tire changer. "Because it features simple manual operation instead of expensive pneumatic or electric power systems, we're able to sell it for only \$199."

Ideen adds that, "many farmers and ranchers have been asking for a low-priced tire changer. Most farm-

ers and ranchers can't justify owning the pneumatic models, which require a large air system to operate, or those operated hydraulically or electrically."

The manually-operated Wikco Model 100 requires neither air nor electricity. It works on almost any car or light truck tires, tractor fronts and similar size tires up to an 11L by 15 flotation tire. It can be used to break beads, demount and mount tires.

The changer comes complete with bead breaker arm, a manual pry bar for demounting, and a mounting tool to roll the bead back onto the rim. The changer can be used in the shop, or taken to the field for on-site tire repairs.

For more information, contact: FARM SHOW Followup, Wikco Industries, Inc., Route 2, Broken Bow, Neb. 68822 (ph 308 872-5327).

