

Wood burner uses a 1/4 hp electric pump to send heated water through plastic pipe to radiator inside Tietz's house, where a furnace blower propels hot air into house.

## Outside Wood Burning Furnace Built For Less Than \$1,000

After checking out the features - and prices - of commercial outside wood burning furnaces, Richard Tietz decided to build his own.

"I think it works better than anything on the market, and I built it for less than \$1,000," says Tietz, of Orlando, W. Va. "I've used it for 10 years to heat my 2,800-sq. ft. home, keeping it at 75 degrees all winter long."

The wood burner measures 5 ft. long and 3 ft. high and mounts on angle iron skids. It sets about 100 ft. away from Tietz's house. It's made out of 3/16-in. thick hot rolled steel with a 3-in. wide water jacket built around it. A 1/4 hp electric pump sends heated water through plastic pipe to the house. The heated water is piped into a radiator, where a fur-

nace blower propels hot air into the house. The entire system is thermostat-controlled.

"It'll burn for 18 to 24 hours on one filling," says Tietz. "I use this stove to burn 4-ft. logs measuring 3 to 8 in. in diameter. I set up a conveyor to load logs into the firebox. The conveyor is located next to the store. I just add a removable 3-ft. section whenever I need to load up with wood. If I want I can check for air leaks in the firebox by forcing compressed air in at 65 psi. The only drawback is that once a month I have to shovel out ashes."

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"Moveable" corral consists of big 6 by 38-ft. panels that are made from center pivot irrigation pipe and channel iron.

## Heavy-Duty Corral Made From Irrigation Pipe

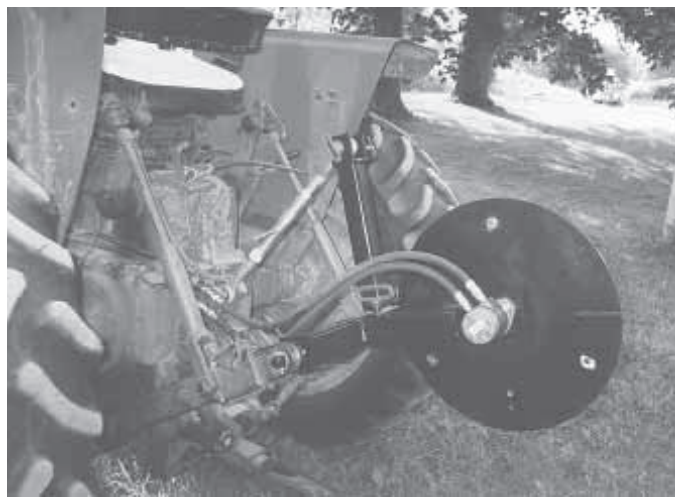
Shane Harvey has come up with an inexpensive way to construct a "moveable" heavy-duty livestock corral. He uses long sections of center pivot irrigation pipe along with channel iron posts to form large, 6 by 38-ft. panels. This results in a very strong, portable corral panel, useful for all kinds of farm jobs.

To make the portable posts Harvey uses 11-ft. sections of channel iron, also taken from the center pivots. He cuts the iron into 5 and 6-ft. sections with the shorter piece acting as the base and the longer section as the post. The longer piece stands on the cross piece and they're welded together. That weld needs to be the strongest point on panel because it bears all weight of the irrigation pipe.

Four 38-ft. long pieces of irrigation pipe are bolted between each set of channel iron posts. The pipe fits into the channel and bolts are put through drill holes through both the channel iron and pipe. The cross-members and the post can be disassembled for storage.

Shane's father, Eldon, marvels at how well the panels work. "They're strong and can be picked up with a loader or skid-steer to be moved around," he says. "And they can be secured to another panel with bolts or wire. It's a really fast way to make a pen," he notes.

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Tim Rodel built this 3-pt. mounted, hydraulic-operated wire spooler. "It's a simple way to unwind or roll up wire. I can remove the spool and store it for later use," he says.

## Adjustable Wire Winder For High Tensile Fence

"It's a simple way to unwind or roll up as much as 4,000 ft. of wire in only a few minutes. You can then remove the spool and store it for later use," says Tim Rodel about his 3-pt. mounted, hydraulic-operated wire spooler.

Rodel runs cattle on corn stalks and hay ground and needed a fast and easy way to install and take down temporary fence.

The unit consists of two pieces - a horizontal toolbar, and a spool that's rotated by a hydraulic motor and mounted on a short length of tubing that pins onto the toolbar. The spool can be mounted either horizontally or vertically. It consists of two metal plates, one of which can be taken off by removing a large nut from a bolt that runs through the center of the spool. The wire winds up around three pins welded onto one of the plates. Once the spool is full, you tie the wire off, then remove the plate to pull off the wire coil.

"The pins keep the wire taut at all times and allow you to make any size you want without worrying that it will unravel," says Rodel. "The machine can wind the wire up at the same speed as your tractor travels, or you can pull wire onto the spool with the tractor in a stationary position.

"When we're setting up fence we position the spool horizontally. When we're taking it down we position the spool vertically, be-



Spool can be mounted either horizontally or vertically.

cause that makes it easier to watch the wire as it feeds onto the spool."

Sells for \$695.

Rodel also offers an open-type spool without any pins that allows you to wind up barbed wire that is to be discarded.

Sells for \$695.

He also offers a model for skid steer loaders. "It's designed for fruit growers who grow trees up into high tensile wire that's 10 ft. off the ground," notes Rodel. The skid loader model sells for \$795.

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## "Smart Helmet" Must Be On To Start ATV

New Zealand farmer Don Temple-Cox has designed a new safety helmet for ATV's that must be on for the machine to start.

The "smart" helmet consists of a transmitter in the helmet and a receiver wired into the ignition. If the driver isn't wearing the helmet when he starts the bike, the transmitter won't send the signal needed by the receiver, and the vehicle's ignition will be switched off after a 20-second delay.

The transmitter is a bit bigger than a matchbox and clips to the side of the helmet, according to Temple-Cox.

His patented "Quad Safety Helmet" transmits up to 150 ft. so the rider can dismount and chase livestock or do other chores without the bike's engine quitting.

Temple Cox is looking for investors to back the helmet but will also consider selling the concept to a firm which can develop it further. He expects it will sell for under \$200.

The New Zealand man is also the inventor of "Doc's Bye Flies" fly traps, previously featured in Vol. 23, Issue 3 of FARM SHOW.



Safety helmet keeps ATV from starting unless driver is wearing helmet.

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