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DOESN'T TAKE UP ANY FLOOR SPACE

Wood-Burning Stove Hangs From Ceiling

When Lorin Cook designed a heating system for his new shop, he decided to save floor space by building a "hanging" wood-burning stove attached to an electric hoist that raises it up over the work area even when it's being used.

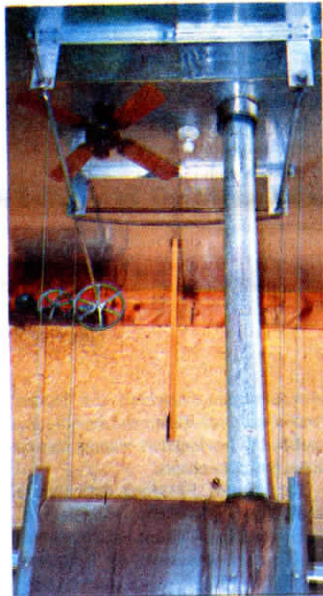
The stove consists of two 55-gal. barrels bolted to an angle iron framework. The framework is suspended by four 1/8-in. dia. cables from a pair of 1-in. dia. shafts mounted just below the shop's 14-ft. high ceiling. An electric hoist mounts on one wall and turns both shafts at once, winching up all four cables to raise the stove 7 1/2 ft. over the work area. A 30-in. dia. ceiling fan blows heat from the stove downward.

"It doesn't take up any floor space, yet it provides heat right over my work area," says Cook, of Ithaca, Mich. "It makes it easy to keep the floor clean because there's no concentration of wood or ashes like there is with a floor-mounted stove. There's also less of a fire hazard. I had the stove checked out by my insurance agent and made sure it met local fire codes before I built it. It takes only a little more than 30 seconds to raise and lower it. The only time I lower the stove is to load wood and remove ashes.

"The extra barrel adds about 25% more heat than one barrel alone. It really puts out the heat. I've noticed that the temperature around the work area is about 5 degrees higher when the stove is in the air than when it's on the floor. I think that's because the fan is able to push hot air directly above the stove onto the work area. My shop has 6 in. of insulation in the walls and ceiling. I can heat it to 70 degrees even when the outside temperature is 0 degrees or below."

The framework holding both barrels together is made from 2-in. angle iron. There's 8 in. of clearance between the two barrels. An 8-ft. long, 7 3/4-in. dia. stove pipe mounted on one end of the top barrel fits inside a 9-ft. long, 8-in. dia. "chimney" pipe that extends through the roof of the building. The smaller diameter pipe is free to slide up and down inside the larger one as the stove is raised and lowered. A 5-in. dia. "vent" pipe connects the two barrels.

The stove hoist consists of a 1/3-hp electric motor bolted to a 12-in. wide steel plate



A 30-in. dia. ceiling fan blows heat from stove downward. Note cables and shafts.



Electric hoist mounts on one wall and turns both shafts at once, winching up all 4 cables to raise stove 7 1/2 ft. over floor.

that's bolted to a wooden truss just below the ceiling. The motor belt-drives a jackshaft which in turn chain-drives the two shafts so that they evenly raise the four lengths of cable supporting the stove. "I feel safe working under the stove because the four cables have 8,000 lbs. of tensile strength and the stove weighs only 600 lbs.," notes Cook.

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Hinged tank is equipped with a dump handle for fast, easy cleaning.

IT'S EASY TO CLEAN AND VIRTUALLY ENERGY-FREE

New "Tip Tank" Cattle Waterer

"We think it's the ultimate in cattle waterers," says Lynn Sherer, Pleasant Lake, Ind., manufacturer of the new easy to clean "Tip Tank".

The waterer's hinged tank is equipped with a handle for fast, easy cleaning. "The tank is easy to tip - wives or teenagers can do it," Sherer points out.

The all-weather waterer is virtually energy free. "It stays freezeproof in cold weather to minus 30 or 35 below, yet uses no electricity or other fuel, no insulation, and no plastic balls, lids or trap doors. An automatic control valve connected to the incoming water supply circulates fresh water into the tank to prevent freezing," explains Sherer. "Cattle like it because it's easy to drink out of. There are no balls to push or lids to lift."

The Tip Tank is energy free except for the

cost of electricity to pump the small stream of water that keeps the tank from freezing. "It uses less electricity in a month than most conventional electric water heaters use in a day," says Sherer. He notes that drain tile is generally used to take care of overflow from the freeze-control water supply.

The Tip Tank is available in a 4 ft. (63 gal.) model for \$649, and a 6 ft. (95 gal.) model for \$699. Overall dimensions (L-W-H) are 57-26-36 in. for the small model, and 81-26-36 in. for the large model.

The float valve on both models delivers 600 gals. per hour at 50 lbs. psi. The small model accommodates 30 to 40 animals and the large model 60 to 80 animals.

For more information, contact: FARM SHOW Followup, Advanced Industries, Rt. 1 Box 414, Pleasant Lake, Ind. 46779 (ph 219 475-5891).



"Round Bale" Electric Fence

Last winter Fred Patron of Goodeve, Sask., needed a temporary "overflow corral" for his beef cows, but the ground was frozen too hard to install electric fence posts. He solved the problem by using round bales as a substitute for posts.

"It eliminates the cost of conventional fence materials and provides a windbreak for the cattle," says Patron, who farms with sons Brian and Bernie. "Normally we keep our cows in a corral during the winter where they calve. The following spring we move the cow-calf pairs to a pasture. However, the corral was overcrowded last winter so we needed more room.

"We spaced the bales 20 to 30 ft. apart in a zig zag fashion so that we could

stretch the wire tight between bales. We wrapped extra nylon twine around each bale in order to make the sides firm. Then we wrapped a single wire around the bale and tied it to the electric fence. As we released more animals into the holding area, we added more bales in order to make the corral bigger. When the weather warmed up we used a front-end loader to move bales farther out to keep cows out of muddy ground. When we wanted to turn the cows out to pasture, we simply wrapped up the wire and removed the bales with a front-end loader. We later used them for bedding."

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