



A 42-in. long firebox inside the 10-ft. long stainless steel tank is completely surrounded by circulating water which gets piped to as many as five different locations.

PROVIDES HOT WATER HEAT TO BUILDINGS AND GRAIN DRYER

Wood-Fired Boiler Built Out Of Old Milk Tank

"I had the idea in my head for about two years before I found a junked tank I could use," says Isaac Yoder, Union Grove, North Carolina, who built a wood-fired boiler out of an old 600-gal. "Zero" bulk milk tank.

Yoder put a 42-in. long firebox inside the 10-ft. long stainless steel tank so that it's completely surrounded by circulating water, which gets piped to as many as 5 different locations. In addition to heating his shop and house, which was already set up for hot water heating, the furnace provides heat to and house, which was already set up for hot water heating, the furnace provides heat to a grain dryer via a car radiator set into the air inlet.

"The first thing I did was buy several sheets of 10-ga. stainless steel to make the firebox, along with several lengths of 4-in. dia. stainless pipe. I made the firebox in an octagon shape to allow more water surface around the firebox.

"I cut a hole in the end of the tank and inserted the firebox back flush with the inner wall. The door to the firebox is double-lined and a blower on the bottom side provides draft when the hot water thermostat calls for more heat. Then I ran four 4-in. stainless flue pipes horizontally from the firebox to the other end of the tank where they come together in a junction box with an 8-in. dia. smoke pipe that carries smoke and ash out the top. A removable plate on the junction box gives easy access to clean out

the flues.

"I welded 5 pairs of 1-in. dia. stainless pipe nipples in the side of the tank for pump-out and return lines to run to buildings. The circulating pump on the line to the house is hooked up to a thermostat inside and we also installed a cold water sensor shut-off against the water line so if the fire happens to go out and the water cools off, the pump will automatically cut off.

"The big plus in using milk bulk tanks is the stainless material and the fact that the tanks are already insulated. You should remember, though, that milk tank insulation is heavier on the bottom than on top. I added additional insulation over the top part of the tank and the manholes.

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"Caution should be taken when welding on the tank as the insulation material is styrofoam which can cause harmful fumes.

"We installed the stove in the beginning of 1990. It does all we expected it to do and more. The only thing I might do different would be to use a tank with 1,000 gal. capacity but I'll know better after the coming winter whether the 525 gal. reserve capacity of this furnace is enough to take care of all my heating needs."

Contact: FARM SHOW Followup, Isaac Yoder, Yoder Manufacturing Co., Rt. 1, Box 73-A, Zion Liberty Road, Union Grove, N.C. 28689 (ph 704 539-5532).



The "multi-use" bale-handling system consists of a 5-ft. long prong and 3-arm cradle.

CAN BE EQUIPPED WITH PLASTIC BALE WRAPPER, WIRE UNROLLER, CRANE

New "Tow-Behind" Bale Hauler-Unroller

A new "multi-use" round bale hauler-unroller designed to be pulled behind your pickup or tractor lets you haul bales at highway speeds and unroll them in either direction, and can also be equipped with optional attachments including a plastic bale wrapper, wire roller-unroller, and 15-ft. high crane, according to Peregrine Mfg. Ltd., Winnipeg, Manitoba.

The "Farm Arm" multi-use bale handling system consists of a 5-ft. long prong and 3-arm cradle. A hydraulic cylinder tilts the system consists of a 5-ft. long prong and 3-arm cradle. A hydraulic cylinder tilts the prong and cradle at a pivot point just above the trailer axle.

"It lets you haul bales at highway speeds and unroll them in either direction, and eliminates the need to start a tractor to feed round bales in the winter," says Danny Kuzwb, inventor. "Other bale hauler-unrollers are tractor-mounted which limits highway speeds and is less safe to use because all of the weight is on the rear of the tractor. They can turn the bale in only one direction which forces you to load it according to the direction the bale was wound. My bale hauler turns in either direction allowing you to load the bale from either end. It's

also safer to use because it's trailer-mounted. About 75% of the weight is on the trailer and 25% is on the pickup or tractor which is just enough to provide extra traction.

"It's also a much more versatile unit because of the attachments. The plastic bale wrapping attachment mounts on front of the trailer and wraps the bale in transport position."

The bale hauler-unroller can be powered by a self-contained electric-over-hydraulic 12-volt hydraulic pump with hand-held 12-volt hydraulic pump with hand-held remote control, a 5 hp gas engine that drives a hydraulic pump with remote control, or a clutch kit that's belt-driven by the pickup or tractor engine. The pump operates only when the clutch is activated with the remote control.

Sells for \$2,900 (Canadian). The optional plastic bale wrapper sells for \$290, the crane (for lifting loads or putting on tractor duals) sells for \$400, and the wire unroller for \$300.

For more information, contact: FARM SHOW Followup, Peregrine Mfg. Ltd., 1249 Plessis Road, Winnipeg, Manitoba Canada R2C 3L9 (ph 204 222-2768).

NEW MOUNTING BRACKETS FIT MOST MAKES, MODELS

Mount A "Flex" Harrow On Your Field Cultivator?

Now, thanks to special "Flex-Master" mounting brackets introduced by SM Sales, of Sanborn, Minn., you can equip your field cultivator with a flexible tine harrow.

"With flex-tine harrows, you have twice as many teeth working the ground than conventional tine harrows," explains Allan Stark, president. "What's more, a flex-tine harrow is much less likely to plug in heavy trash."

SM Sales offers flex-tine harrows for field cultivators in 4 and 6 ft. widths, and a standard length (front to back) of 4 ft.

Equipping a 20 ft. wide field cultivator runs right at \$1,565 for two 4-ft. wide and two 6-ft. sections (all with heavy-duty 1/2 in. dia. teeth), and eight mounting brackets. The new "Flex-Master" mounting brackets hinge to provide flexibility when crossing ditches or uneven terrain, and adjust to provide optimum digging depth of all of the harrow tines.

For more information, contact: FARM SHOW Followup, SM Sales, Box 809, Jct. 14 and 7N, Sanborn, Minn. 56083 (ph 1-800 533-5326, or 507 648-3801).



"Flex-Master" mounting brackets hinge to provide flexibility on uneven terrain.