

CUTS THROUGH CEMENT, STAINLESS STEEL, ALUMINUM, BRICK, PLASTER OR IRON BEAMS

You've Never Seen A Cutting Torch Like This

You've never seen anything like the new Arcair "Slice" torch that cuts through virtually any metallic or non-metallic material made, including aluminum, stainless steel, concrete, reinforcing rod, bricks, plastics and every kind of iron.

"It's three times as fast as an oxyacetylene torch and can cut materials — like aluminum and stainless — that oxyacetylene can't handle," says James A. Horvath, Arcair national sales manager, noting that the new Slice torch generates as much as

10,000°, virtually vaporizing many materials.

The new torch is extremely portable, requiring simply oxygen at about 60 psi and either a 12-volt battery (for portability) or a welder electrical power source (which will generate the hottest cutting temperatures). Oxygen and electricity are fed to a special Arcair exothermic cutting rod that fits into the end of the torch. Once ignited, the rod will burn without electricity if fed by oxygen. Each rod lasts about 40 sec. and can be

quickly replaced. To operate, you simply turn on the oxygen and touch the carbon steel cutting rod to the grounded workpiece or a striker plate. The cutting rod ignites immediately.

"It's ideal for nearly any cutting job around the farm. It'll cut through mud and rust-coated machinery and can be used to remove rusted bolts or pins. It'll cut concrete lined pipe, building foundations, iron beams, and can be used to put cutting edges on loaders," says Horvath.

The Arcair Slice torch sells for \$275. Cutting rods currently sell for \$1.50 apiece but the company expects the price to drop sharply soon due to a newly developed manufacturing process.

For more information, contact: FARM SHOW Followup, Arcair, P.O. Box 406, Lancaster, Ohio 43130 (ph 614 653-5618).



Oxygen and 12-volt electricity fuel cutting rod that simply slips into end of torch.

Trouble-Free Thermostat For Livestock Barns

"Many hog producers tell me they have to adjust thermostats daily in confinement buildings due to corrosion, and the fact that electro-mechanical thermostats often vary in temperature as much as 10° or more," says Wayne Kahler, manufacturer of new solid state temperature controls for any confinement building or greenhouse.

The new thermostats use solid state sensors — about the shape of a lead pencil and covered with plastic — that detect temperature changes through a change in resistance of its conductive materials. The sensors are wired to controls that can be mounted in remote locations, such as a service area, so that none of the sensitive electrical parts are exposed to the corrosive environment of the barn.

The temperature control unit turns fans on or off in the building. Sensors are spaced throughout the barn in zones which can be varied to fit the structure. Kahler's state-of-the-art electronics can control variable

speed fans and various combinations of fans to create the best possible environment.

The temperature control system, which recently went into production, has been tested in 9 barns over the past couple years. Several of the hog farmers bought the system to retrofit old thermostat controlled barns and others put the system into new barns. Individual thermostats are available to replace thermostats one by one or you can install a complete system. A single Kahler electronic thermostat sells for \$99. In general, Kahler says the complete temperature control system sells for about half again as much as conventional electro-mechanical systems.

Kahler Electric Co. also makes electronic air pressure control systems that provide automatic roof vent control in conjunction with temperature control. Negative Air Pressure Controls, as they're called, maintain proper air pressure automatically regardless of the number of fans



Kahler holds solid-state sensor, which is the only component of system exposed to corrosive elements inside barn.

operating. When sensors detect a change in air pressure, they send a signal to electric actuators on the building's dampers which then open or close the vents.

"Together with our temperature control system, we can provide the most controlled building environment possible," says Kahler. "One customer told us that he has less

sickness and uses less antibiotics because he can keep temperatures within 2 to 3° and can adjust air flow so animals are never in a draft."

For more information, contact: FARM SHOW Followup, Kahler Electric Co., 909 Winnebago Ave., Fairmont, Minn. 56031 (ph 507 235-6301).

First Auto-Start System For Diesel Engines

"It's the first fully automatic injection system for cold-starting diesel engines," says Jerry Peterson, St. Paul, Minn., sales representative for KBI, a new auto-start system that automatically injects an 85% ether starting fluid mixture into diesel engines when engine temperature drops below 40°.

The Dieselmatic consists of a 21 oz. canister of starting fluid, a temperature sensor, wiring to the starter, and a vaporizing valve that vaporizes the starting fluid before injecting it into the engine.

If the engine temperature is below 40° as the key is turned, a precisely

controlled amount of starting fluid is injected into the intake manifold. The system is wired directly to the cranking motor terminal which assures that fluid will only be supplied to the engine if the cranking motor has been activated. A newly patented solenoid activated valve on the starting fluid canister instantly opens to inject fluid to the engine and then keeps flowing for several seconds after the engine has started to prevent faltering of the cold engine.

"Other add-on starting assist systems have been developed but this is the first that works independently of the operator and only comes on when



"There's much less strain on engines, starters, and batteries. Provides consistent starts, even at 25° below zero," says manufacturer.

it's needed," says Peterson.

The Dieselmatic system can be used on most any diesel engine — tractor, truck or car — not fitted with a glow plug. It recently became standard equipment on Kenworth over-the-road trucks, according to Peter-

son.

For more information, contact: FARM SHOW Followup, J.W. Peterson, NDE Sales, 2800 Fairview Ave., St. Paul, Minn. 55113 (ph 612 633-4864).