



Individual row units convert anhydrous to liquid. The new concept takes less power than direct application of NH_3 , there's less leakage loss, and it's safer to apply, says Louis Siebert.

ROW UNITS CONVERT NH_3 TO LIQUID

New Way to Apply Anhydrous Ammonia

A Nebraska firm is scrambling to keep up with booming demand for its new individual row attachments for applying anhydrous ammonia as a liquid.

"Our units are designed to maintain a constant pressure of about 2 lbs. per sq. in.," explains Louis Siebert, owner-operator of Lou's Custom Machine Shop, Henderson, Neb. His concept for applying anhydrous as a liquid uses a converter for each row, rather than a central conversion box.

Chambers and baffles inside the cylindrical-shaped converter for each row slow down the boiling action of "hot," pressurized anhydrous as it comes out of the regulator, causing it to cool down. As it does, about 85% to 90% of it turns to liquid, and pressure is reduced to about 2 lbs. Liquid anhydrous gravity feeds from the bottom of the unit as non-pressure liquid ammonia. The remaining vapor portion comes off the top of the unit (or an optional side tap) and is also hosed into the ground.

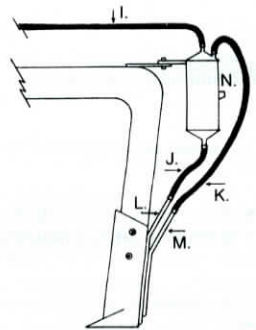
Here, according to Siebert, is the big advantage in converting anhydrous from "mostly gas" to "mostly liquid": "The converted anhydrous enters the soil under very little pressure. This means you don't have to knife it in as deep as with conventional application, which reduces horsepower requirements. Another key advantage is that shallower application puts the fertilizer in the root zone where it's more readily available to young, shallow-rooted plants."

Converter units adapt to chisel

plows, toolbars, disks, field cultivators or whatever rig you're now using to apply conventional anhydrous ammonia. They're designed with an optional tap which can be used if less than 2 lbs. pressure is needed in certain soil conditions to prevent plugging. Virtually all the ammonia, using this tap, is converted to liquid.

Individual row converter units sell for \$43, including mounting brackets, hoses and two flexible metal tubes for each shank. The tubes are flexible and can be bent as needed to conform to the shank's contour. Once bent into the proper shape, you weld them onto the shank.

For more details, contact: FARM SHOW Followup, Lou's Custom Machine Shop, Sieb Inc., Box 654, Henderson, Neb. 68371 (ph. 402 723-4468).



Drawing shows: I. vapor line from regulator; J. liquid line from the converter; K. vapor line from vent to exhaust tube; L. liquid exhaust tube from exhaust port G; M. vapor exhaust tube welded to knife; N. optional tap for "bleeding off" vapor at less than 2 lbs. pressure.

SWINGS ASIDE WHEN HIT

"Auto-Proof" Mail Box

Tired of having his mailbox knocked over by passing vehicles, retired Nebraska farmer Joe Jorgenson decided "there's got to be a better way".

His answer: A new patented mailbox that swings out of the way when hit. Its swinging feature also makes it easier and safer to retrieve mail from the box, particularly for boxes along busy highways. Instead of having to walk onto the road and in front of the box, the box can be manually spun around and opened "from behind". After taking out the mail, you simply flip it to swing it back into position for the mailman's next trip. Another feature allows newspaper boxes to be placed alongside the mailbox on the

swinging stand. Individual stands can be equipped to handle up to six separate mailboxes and newspaper boxes.

Sells for \$27, less freight. Weighs about 30 lbs. packed for shipment. Distributor and manufacturer inquiries welcomed. "I'm retired and would like to make an arrangement with an interested manufacturer with nationwide distribution to take it over," Jorgenson told FARM SHOW. At present, a local machine shop is manufacturing the product for him.

For more details, contact: FARM SHOW Followup, Joe Jorgenson, Box 45, Marquette, Neb. 68854 (ph. 402 854-2530).



Mailbox stand for "swinging mailbox" comes with two telescoping sections made of regular pipe. Outer pipe has notches welded on it so it can be lifted out with a crowbar if box has to be moved. No cement is needed to secure the vertical post.