



Side ventilation system resembles an air mattress standing on one edge. The air tubes deflate as necessary to let more air into the building.

## PLASTIC TUBES INFLATE, DEFLATE TO CONTROL AIR MOVEMENT

# New Way To Vent Livestock Buildings

You'll like the price tag on the revolutionary new Poly-Tex ventilation system for modified open front livestock buildings that uses inflatable plastic tubes to automatically control side and ridge air movement.

"You can install it yourself in new or existing buildings for about half the cost, or less, of conventional fans, heat exchangers, hinged doors and cooling pad systems," says Lowell Anderson, farm marketing director for Poly-Tex Inc., of Castle Rock, Minn. "Our new system was initially developed four years ago for greenhouses and is the hottest thing going in that market. Now, after two years of on-farm testing, we're introducing it to the farm market for use in hog, poultry and turkey barns."

The Poly-Tex system for controlling side ventilation resembles an air mattress standing on one edge. For example, suppose the side vent opening in a building is 4 ft. high and 290 ft. long. A "mattress," made of seven 6 in. dia. tubes stacked lengthwise one on top the other and extending the full 290 ft. length of the building, completely fills and seals the opening when the air tubes are fully inflated. One 1/40 hp squirrel cage fan inflates the top four tubes, and a second fan, also 1/40 hp, inflates the bottom three tubes.

When an inside thermostat or humidistat calls for fresh air, the bottom fan shuts off, causing the bottom three tubes to deflate and slowly collapse accordion style, creating a 2 to 4 in. top opening for outside air to move into the building. If still more fresh air is called for, the top fan shuts off, causing the top tubes to deflate and thus expand the vent opening to the maximum width.

Here, according to Anderson, are other key features of the new system:

- Except for the two fractional horsepower fans, there are no moving mechanical parts — no conventional fans, hinged doors, airlines to freeze, cables to stretch, or expensive curtain controllers to maintain or replace.

- The inflatable "mattress," made of clear polyethylene plastic for controlling side ventilation, lets sunlight enter the building's interior even when the vent opening is closed.

- Easily installs on the outside of most existing livestock buildings without having to do a lot of remodeling.

- Entire "mattress" can be quickly cleaned with a hose, or with a high pressure washer.

- A Poly-Vent "mattress," which always



For ridge vents, one or two (depending on width of opening) inflatable plastic tubes are placed inside a metal housing (made of two 8-in. high galvanized metal strips) that sit on top of the ridge.

stays horizontal, will go around 90° corners if you want to extend it beyond one side of the building.

- The system easily adapts to zone ventilation. For example, suppose a 200 ft. long hog barn is divided into a 40 ft. grower section, and a 160 ft. finishing section. The Poly-Tex system lets you control each section separately for only the cost of adding two 1/40 hp fans.

- When fully inflated, the "mattress" fits tight into self-aligning grooves built into the top and bottom metal framework (made of 24 ga. galvanized metal or optional aluminum) to completely seal the entire opening.

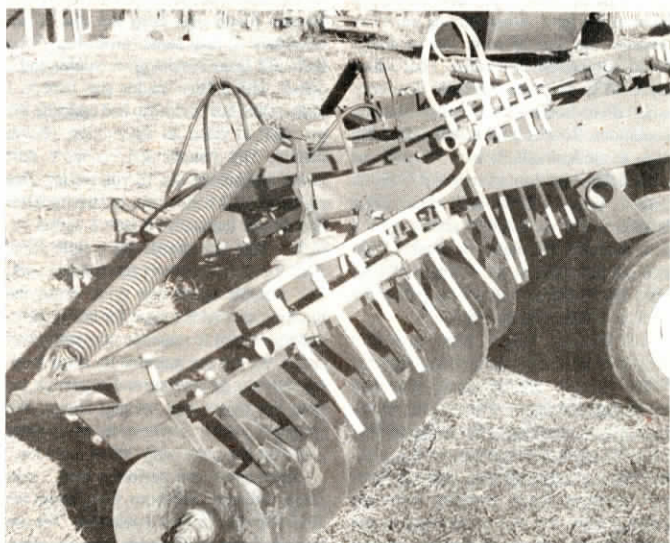
- The inflatable "mattress" adapts to side vents from 2 to 5 ft. high, and up to about 300 ft. long.

For ridge ventilation, Poly-Tex offers its inflatable "mattress" in a one tube (for 5 in. wide or less ridge openings) and two tube (for openings up to 10 in. wide) models. The tubes are made of 12 mil black polyethylene and, when inflated with a 1/70 hp fan, work like giant-size balloons to block the flow of air movement through the ridge.

"Operation of the system is totally automatic and virtually freeze and dust proof," says Anderson. He adds that both side and ridge vent systems can be installed in conjunction with plastic netting to make the openings "bird proof."

Material cost for either a side or ridge system, with galvanized metal framing top and bottom, runs from \$6.35 to \$7.70 per lineal ft., depending on size of the opening (to a maximum width of 5 ft.). The cost with optional aluminum framing ranges from \$8.45 to \$12.50 per lineal ft.

For more information, contact: FARM SHOW Followup, Poly-Tex Inc., P.O. Box 458, Castle Rock, Minn. 55010 (ph 1 800 852-3443, or 507 663-0362).



"Farmers like the simplicity of the system and the fact that it adapts to any equipment including disks, cultivators, chisels, planters and grain drills," says Vanden Bosch.

## SIMPLE, "NO MAINTENANCE" SYSTEM

# "Banding Boom" For Liquid Fertilizer

When custom liquid fertilizer applicator and dealer Paul Vanden Bosch of Gregory, S. Dak., got tired of the constant repair required by the application system on his Ag Chem floater tractor, he decided to design his own system that would eliminate the complications and problems he had experienced banding liquid fertilizer.

"After experimenting for more than a year, I came up with a banding boom that's versatile, efficient and dependable with an easily adjusted rate of application. It works great and easily adapts to any equipment, including disks, cultivators, chisels, planters and grain drills. It eliminates the need for a squeeze pump or other complicated metering equipment and requires only one main hose from the pump," says Vanden Bosch.

The system consists of booms made out of 2-in. dia. PVC plastic. Row fittings are spaced evenly along the boom. Drop hoses attach to the bottom of each row fitting and flow regulators (orifice discs) or jet nozzles for each row mount inside and can be easily screwed out for replacement. Varying size orifices or nozzles are used to meter the

amount of fertilizer applied. The boom, which comes in sections, can be easily expanded or reduced as needed and it can be moved easily from one machine to another by simply changing the length of drop hoses to fit the application.

"Farmers like it because it's simple and easy to use, requiring virtually no maintenance and with no need for expensive metering pumps that limit the number of row drops you can use. An ordinary pto driven pump can be used. This system is lightweight and adapts to virtually any piece of equipment," says Vanden Bosch, noting that the system is designed strictly for banding and not broadcast. "And because of the way drops are positioned close to the ground, the floater-adapted unit can be used to apply fertilizer in winds up to 35 mph."

A boom set up to fit chisel plows sells for \$21 per foot, for disks \$18 per foot, and for floater rigs \$22/ft. Includes mounting brackets but does not include the pump or nozzles.

For more information, contact: FARM SHOW Followup, Paul Vanden Bosch, GIC Manufacturing, P.O. Box 31, Gregory, S. Dak. 57533 (ph 605 835-9449).

## NO MOVING PARTS; CAN'T FALL OFF

# New "Long Life" Scraper For Deere, IH Disk Drills

New from Air Design is a "long-life" scraper for disk drills that has no moving parts, outwears standard scrapers and can't flip over or fall off.

Designed to fit International and Deere disk drills, the new-style scraper has a special tungsten carbide cutting edge for long wear.

Sells for \$9.65 and is easy to install, says manufacturer.

Contact: FARM SHOW Followup, Air Design, Box 248, Scobey, Mont. 59263 (ph 406 487-2238).



Scraper has tungsten steel cutting edge.