

**Simple, practical features  
boost output, save man-hours**

- Two-section seed scale ensures accurate measurement of seed and chemical at every dosage.
- Continuously adjustable seed scale counterweight controls dosage precisely over wide range.
- Large-capacity, constant-level chemical reservoir can't skimp, can't waste chemicals.
- Chemical dosage is measured and applied entirely automatically by weight of input seed.
- Drum has large inspection door for easy maintenance and cleanup.
- Smooth contours inside drum speed cleanup without cuts and scratches.
- Large chemical inlet handles even heaviest slurries.
- Drum discharges to center spout or dual bagger.
- Impeller pump lifts chemical from drum to treater located at another location in the plant.
- Double-dipper dosage measuring principle has been proved by years of efficient service in earlier Panogen seed treaters.

**FOR LIQUID OR SLURRY**

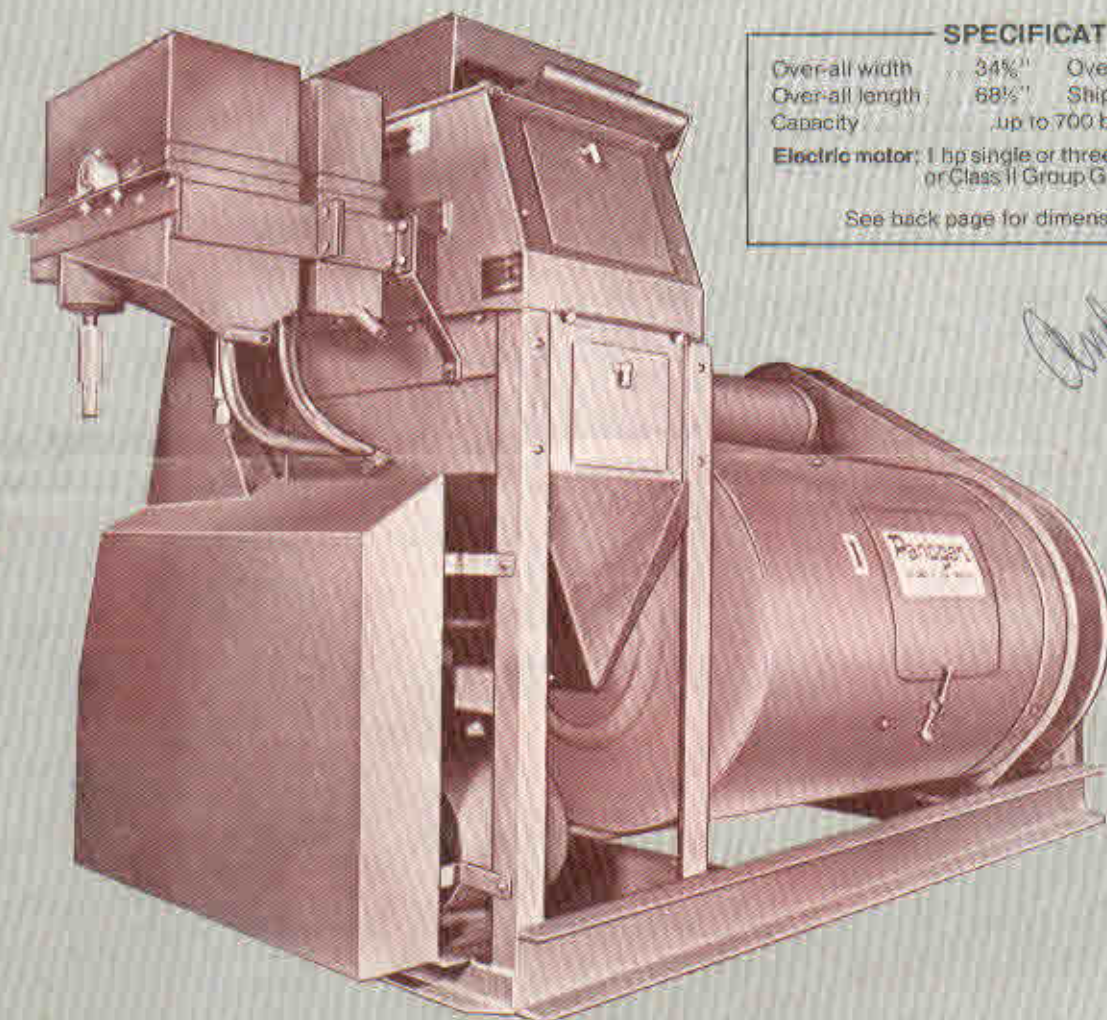
***Panogen***<sup>®</sup>

**SEED TREATERS**

**fully automatic**

**MODEL US-60**

**Husky, heavy-duty seed treaters  
with complete automation!**



**SPECIFICATIONS**

Over-all width	34 1/2"	Over-all height	49 1/2"
Over-all length	68 1/2"	Shipping weight	700 lbs.
Capacity	up to 700 bushels of seed per hour		

**Electric motor:** 1 hp single or three phase, totally enclosed, or Class II Group G with Underwriters' Label

See back page for dimensional illustrations.

*Andy*



# **Panogen<sup>®</sup>** Seed Treater Systems

## Simple-Rugged-Reliable ... Fully Automated!

### What's Basic About a **Panogen<sup>®</sup>** Seed Treater?

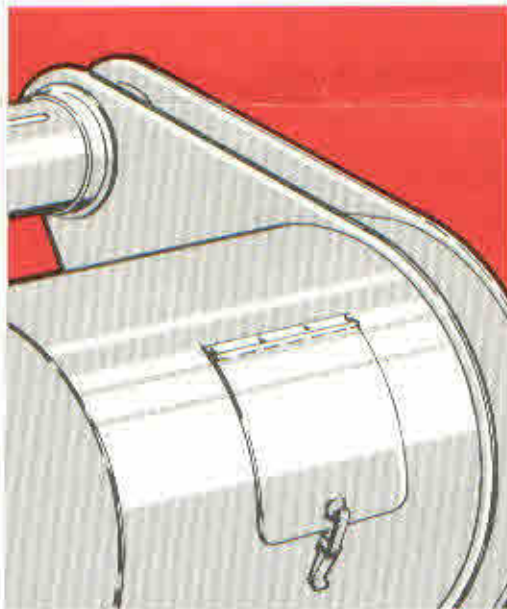


#### **TWO-SECTION SCALE**

All PANOGEN Seed Treaters permit an uninterrupted seed flow—yet all seed is accurately weighed so that correctly proportioned chemical dosages can be automatically applied. This is accomplished through the use of a two-section scale in the inlet hopper. Seed accumulates in one section of the scale until a pre-determined weight is attained. The scale trips, dropping the seed into the mixing drum while the second section fills. It trips and the first section fills. And so it goes—continuously.

Scale adjustment is simple. Just move the weight on the arm to change the amount of seed the scale will accept before tripping.

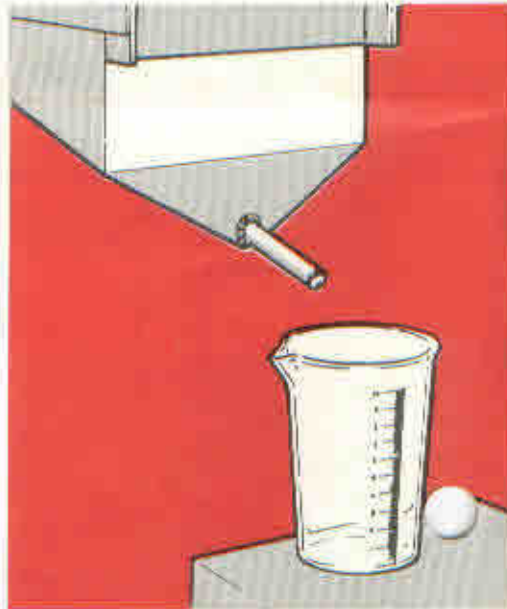
Chemical measuring devices—either the constant level reservoir, with dual-dippers, or the electronic metering unit, are automatically actuated each time the seed scale trips.



#### **MIXING DRUM**

Regardless of size, all mixing drums in PANOGEN Seed Treaters are smoothly contoured internally for easy cleaning. A large inspection door is provided as well as 4 to 6 clean-out ports in every drum. Standard design features include a large inlet pipe for heavy slurries and a central discharge to assure complete, thorough mixing. Seed cannot discharge until the drum fills at least halfway, when the clean-out ports are closed.

A heavy-duty electric motor continuously drives the mixing drum.



#### **TEST PIPE & GRADUATED CUP**

All PANOGEN Seed Treaters are equipped for checking dosage accuracy. This is especially important when you are changing from one kind of seed to another.

Treater operators are furnished with instructions which give the approximate weight setting on the scale for several kinds of seed. The correct setting will deliver the correct amount of chemical per bushel of seed. However, such factors as varying weights per bushel or the capacity of treating, can cause a discrepancy.

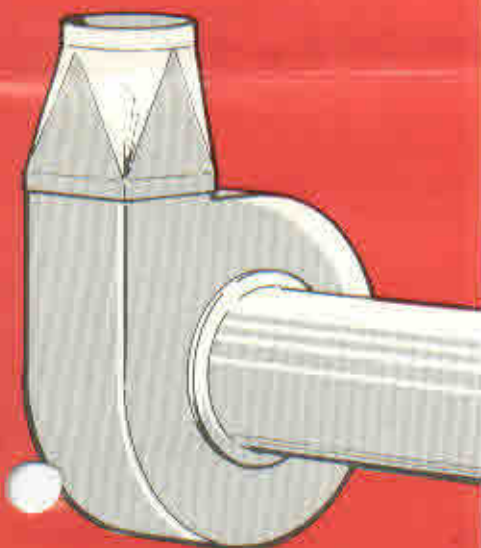
To assure accurate dosage, a known weight of seed should be passed through the treater\*, but the chemical should be bypassed into the graduated measuring cup. If the correct amount of chemical for the amount of seed treated is not delivered into the cup, the sliding weight should be moved up or down until the proper amount is delivered into the cup.

\*As close as possible to the normal capacity.



That's right, we believe that all PANOGEN Seed Treater can be called a system. Why?

Depending upon your needs, any basic PANOGEN Seed Treater, equipped with accessories of your choice, will perform any treating job just right for you.

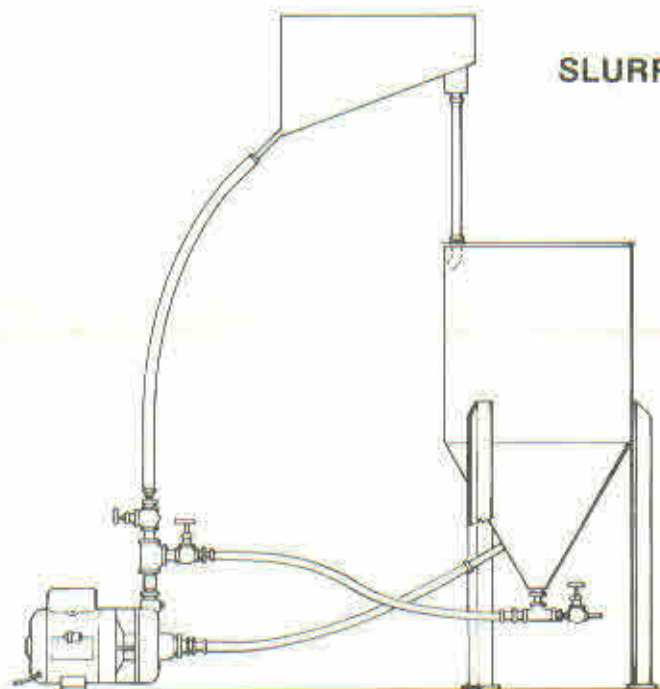


### EXHAUST FAN

A powerful exhaust fan is included in all PANOGEN Seed Treater. It efficiently removes dust and chaff from the drum, assuring cleaner treated seed. Excess fumes are also removed to promote a more pleasant work area.

Common stove piping can be used to vent to the building exterior. It is advisable to connect the exhaust piping to a separate inexpensive dust collector.

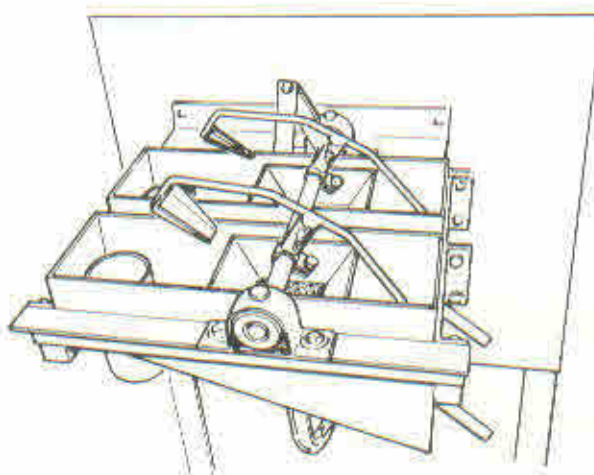
## Three items that add extra versatility to your *Panogen*® Seed Treater



### SLURRY ADAPTER

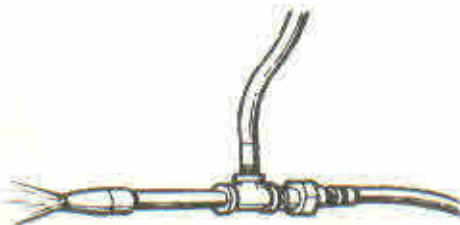
A complete package for high volume seed inoculation or application of wettable powder seed protectants. Inoculant or wettable powder slurry material is placed, with water, in the mixing tank. A special slurry pump recirculates the mixture in the drum until all material is in suspension. When mixing is complete, a valve is opened to permit the pump to transport the inoculant or slurry to the treater. The conical shaped bottom allows for easy and quick clean-out.

Tanks available in 30, 50 and 75 gallon capacities. Cold rolled or stainless steel.



### DUAL AND TRIPLE RESERVOIRS

When treating seed with two or three chemicals simultaneously, it is necessary to equip your treater with this type of unit. Each has the dipper system found on the single constant-level reservoir. They are synchronized so that chemicals enter the mixing drum simultaneously and in conjunction with the seed. Units may be shut off individually when treatment with a single chemical is desired.

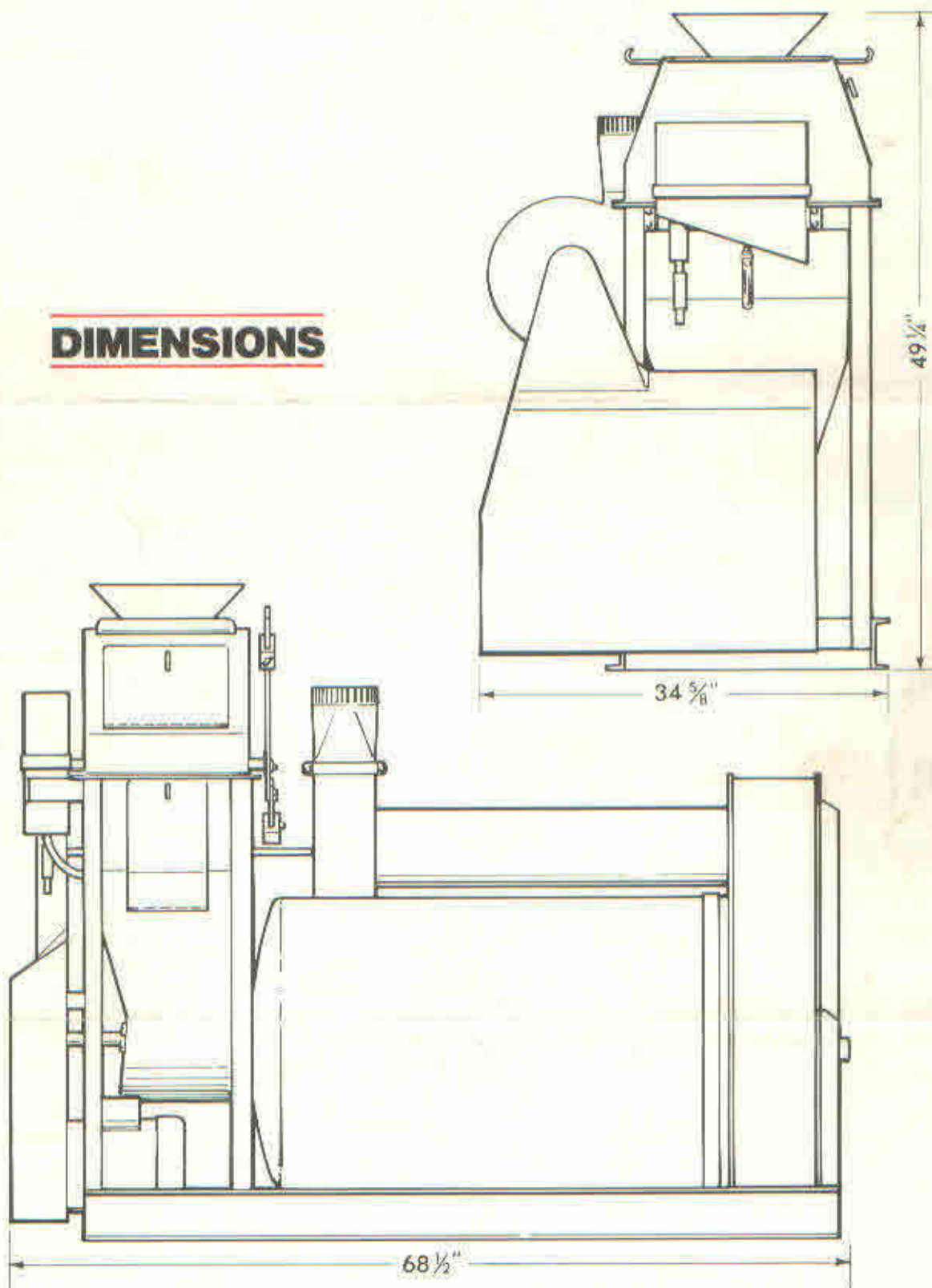


### SPRAY NOZZLE SYSTEM

Spray nozzles are installed on some PANOGEN Seed Treater as standard equipment. On all other PANOGEN units, they may be added as optional equipment.

With this system, the chemical or chemicals are sprayed on the seed in the mixing drum. This assures maximum distribution.

## **DIMENSIONS**



National Sales Agent—**Southeast Distributors, Inc.**  
P.O. Box 9462, Little Rock, Arkansas 72219

Manufactured by **R & B Metal Products**, 801 McHenry Ave. Woodstock, Illinois 60098