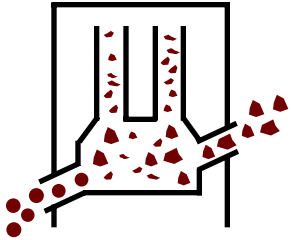




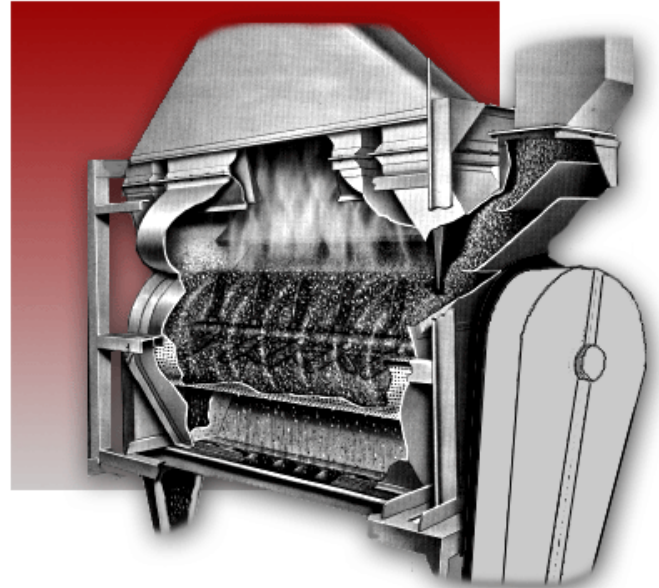
# EUREKA SCOURER

... The best  
begins with S. Howes!

For Grain Perfection . . . The **EUREKA SCOURER**  
will polish your product before milling

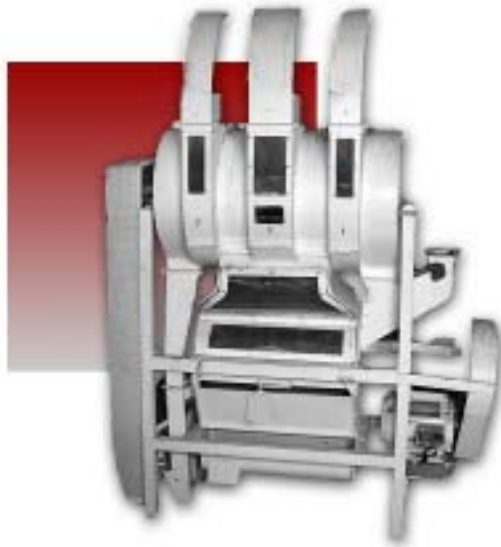


- ◆ Removes hull casings and polishes seed
- ◆ Air wash technology
- ◆ Proven design
- ◆ Precision regulation
- ◆ Easy accessibility
- ◆ Durable construction
- ◆ Three separate fans



## Sample Applications:

- Oats
- Corn
- Maize
- Soybeans
- Wheat
- Barley
- Chemicals
- Plastics



Using a unique combination of gentle tapping, trajecting, and forceful suction, Eureka Grain Scourers thoroughly clean all types of grain by "air washing", a process which has made Eureka Scourers famous throughout the world.

Eureka "Air Wash" Scourers operate at the highest scouring efficiency. Grain comes clean, free of crease dirt, whiskers, fuzz, and other types of foreign matter. Grain also becomes free from the elusive discoloring substances found in the crease and/or protectively buried under the whiskers. No abrading or chafing of the grain occurs.

With the revolutionary Eureka "Air Wash" Scourer, off-grade kernels of grain are easily raised to Federal Grade Standards, foul lots are restored to milling fitness, rapidly, inexpensively, and with a minimum sacrifice of the millable grain.

*Free Testing!*

*Photos and drawings are not intended to show or suggest use or non-use of any operator protection systems*

*Parts & Service  
Readily Available*

**S. HOWES**  
Established 1856

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Member  PROCESS EQUIPMENT  
MANUFACTURERS' ASSOCIATION

## HOW A EUREKA "AIR WASH" SCOURER WORKS

The powerful suction action of a Eureka "Air Wash" Scourer is provided in one of two ways. Either it can be supplied by the central air system of a mill, in which case the Eureka **Model NF** (No Fan) is used, or it can be supplied integrally, as in the Eureka **Model F** (with Fan). Fresh air is drawn through several ports. One port is under the grain inlet at the upper right. Another port draws air up through the bottom, thus passing the rotating paddles, while a third is up through the processing outlet.

With the suction on, product is permitted to enter the Eureka "Air Wash" system through the product inlet. Immediately the product is subjected to an initial air-washing to remove superficial light particles.

The product then falls to the main cleaning channel of the rotating paddles. These paddles are corrugated and adjustable, both features providing the most efficient cleaning action. The whirling paddles perform two functions:

- ◆ They tap the kernels to loosen particles on the surface of the kernels and embedded in the crease, and
- ◆ They toss or trajectory the particles into a massive whirling action inside the scourer's case.

Here, the kernels are subjected to contra air pressure and washed by the well-balanced trajectory action of the paddles and the firm suction of the air system. The process results in a truly a positive but gentle and smooth cleaning action.

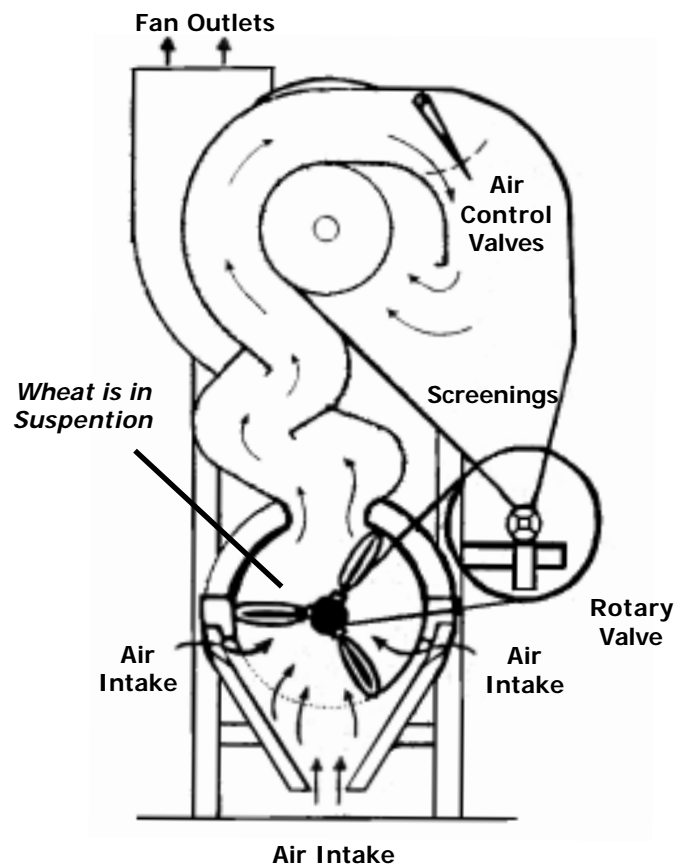
The product works its way down the trajectory system and finally leaves the scourer, in a thoroughly clean condition, through the product outlet at the lower left. Here the product receives one final air wash just before it leaves the scourer.

## EUREKA SCOURER SPECIFICATIONS

Model	Scourer with Plant Air		Scourer with Fans & Settling Chamber	
	NF-3	NF-5	F-3	F-5
Length (inches)	78	112	89	121
Width (inches)	25	33	43	60
Height (inches)	77	93	71	94
Inlet (inches)	5 x 8	8 x 16	5 x 8	8 x 16
Air Outlet (inches)	6 x 18	8 x 24	Screening Fans - 5 x 12 Center Fan - 10 x 12	Screening Fans - 7 x 18 Center Fan - 16 x 18
Shaft Speed (RPMs)	300-500	300-500	300-500	300-500
HP	3 - 5	5 - 7½	5 - 7½	7½ - 10
Capacity (lbs. per hour)	20,000	48,000	20,000	48,000
Air Requirements (CFM)	1,300	2,600	1,300	2,600

Notes: All dimensions and capacities are approximate

### AIR FLOW DIAGRAM FOR F MODEL SCOURER



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