

DESTONERS

Kipp Kelly Air Flotation Destoners separate two fractions by weight rather than by shape or size. Stones, mudballs, nails, glass, tramp metals, and many other combinations are removed by flour mills and cereal plants, grain elevators, food plants, and mineral processors.

Kipp Kelly Industrial Concentrators separate dense product from small granular products like diamonds from ore, or steel cable in tire recycling.



Kipp Kelly Air Flotation Stoners and Concentrators are available in models with capacities up to 14 tonnes/hr, depending on product being treated. Kipp Kelly Destoners are available in either a vacuum or pressure style.

KippKelly
BY ARROWCORP

ArrowCorp



VACUUM SERIES (S-30, S-45 AND S-60)

Product is fed onto the oscillating deck towards the higher end. A uniform current of air is drawn through the porous deck by an external fan or plant ventilation system. The lighter weight material flows down and the heavier material, not being supported by the air stream, is carried to the upper end of the deck by the deck motion and discharged.

The design is virtually free of vibration, dustproof and has infinitely variable air control. The deck may be removed quickly and easily for cleaning. Power requirement is low and installation is simple and inexpensive.

APPLICATIONS

The stoners are suited to a wide range of agricultural products, including barley, beans, nuts, coffee, rice and rye. **The removal of stones, mudballs, and broken hulls is achieved at efficiencies approaching 95% in some products.** The concentrator or industrial version is used world wide in the mineral processing industry.

MODEL	S-30	S-45	S-60
Net Weight (lb/kg)	350/159	575/261	650/295
Motor Requirements (hp/Kw)	.75/.55	.75/.55	.75/.55
Air Requirements CFM (cereals)	2200	4500	8000
Thruput Capacity Tons/Hr (cereals)	4.0	7.5	14.0



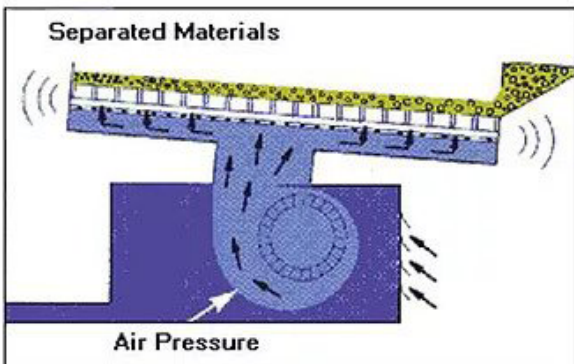
PRESSURE SERIES (S40-60 AND S60-60)

Product is fed onto the oscillating deck towards the higher end. A uniform current of air is blown through the porous deck by an integral Fan mounted under the deck. The lighter weight material flows down and the heavier material, not being supported by the air stream, is carried to the upper end of the deck by the deck motion and discharged.

The design is virtually free of vibration with the use of a special wobble drive, and has infinitely variable air control. The deck may be removed quickly and easily for cleaning.

MODEL	KK40-60	KK60-60
Net Weight	1300 lbs.	1450 lbs
Motor Requirements	7.5 hp	.10 hp
Air Requirements CFM (cereals)	4200 cfm	6500 cfm
Thruput Capacity BPH(cereals)	300 bph	500 bph

THE DIFFERENCE BETWEEN PRESSURE AND VACUUM STYLE DENSITY



PRESSURE STYLE

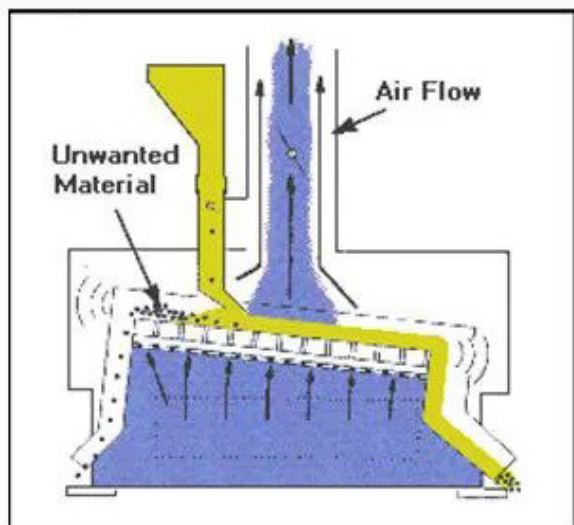
The fan is located under the deck surface and provides the "lift" of air to the product on the deck media. Destoners and Gravity Tables can be manufactured in a Pressure Configuration. Air volume is controlled with an air inlet into the eye of the internal fan.

Advantages:

Simple mechanics and drive, with the deck drive often incorporated with the fan drive. Operator has full view of the deck surface.

Disadvantages:

On dusty material, an overall dust hood and suction system must be incorporated, doubling the horsepower requirements.



VACUUM STYLE

The remote fan is located away from the density separator and provides suction to the product on the deck media. Destoners and Gravity Tables can be manufactured in a Vacuum Configuration. Air volume is controlled with an air Valve on the duct between the suction fan and the density unit.

Advantages

Built in dust control, lower overall horsepower and usually a lower profile than a pressure style.

Disadvantages

Vacuum seal must be maintained on the feed and discharge points, which can be difficult with light material. More difficult for the operator to see the separation as they are looking through a Plexiglas window.