

Carter-Day

Superior

Fractionating Aspirator



A FLEXIBLE, HIGH-CAPACITY MACHINE. EASILY CONTROLLED FOR ACCURATE FOUR-STAGE SEPARATIONS. LOW COST.

- Advanced principles of air control to classify particles on basis of "product terminal velocity."
- High pressure adjustable air capacity handles any separation needs from heavy particles to light dust.
- Rubber covered rolls, at in-feed, insure uniform curtain of material at entry of air stream; eliminates bridging.
- All discharges by gravity. No augers to damage your product.
- All moving parts in contact with material are rubber protected to prevent product damage, and prolong life of machine.
- Aero-dynamic design of duct produces "laminar" air in separating zone; eliminates turbulence after separation; prevents mixing of products.
- Adjustable air bleeder prevents settling of dust in exhaust pipe; no plug-ups.
- Requires only 3 settings for precision separation.
- Micrometer screw air control provides increased accuracy; improves flexibility.
- Additional micrometer setting provides precise control on intermediate separations; a real test for aspirators. Those "intermediates" are important for extra profits.
- Requires minimum operator experience and minimum supervision.



Inquire about our free laboratory testing service.

Here's how it works:

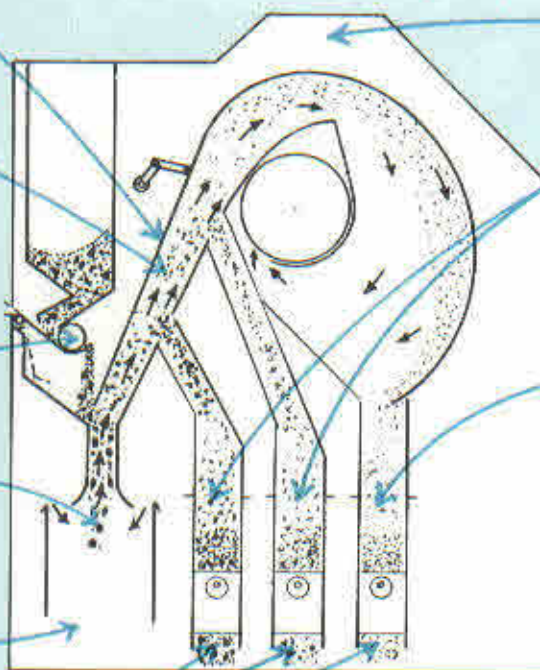
ADJUSTABLE AIR COLUMN—Taper of the lifting column is adjustable to permit selection of the proportion of liftings directed to the three settling chambers.

AIR STRAIGHTENING VANES—Straightening vanes are maintained through the length of the lifting column. This lessens the tendency for air to travel transversely to the column—minimizes turbulence.

UNIFORM IN-FEED—Rubber covered rolls insure uniform curtain of material at entry of air stream—protects product from damage—positively prevents bridging.

TURBULENCE SUPPRESSOR—To effect better air flow, machine is equipped with bell shaped inlet to minimize turbulence beyond inlet point.

DISCHARGE #1—the "throughs"—come off here. This is your heaviest "fraction." Machine can be set to take off heaviest particles at this point—with the lighter material lifted to the two intermediate settling chambers.



DISCHARGE—no augers to damage product. All conveying within machine is by air pressure. Your product is discharged with soft easy action—no back pressure or intermingling in chambers.

ACCURATE AIR CONTROL—Self-locking micrometer type air control permits high degree of separation adjustments. Fan is powered to provide all the air necessary to lift heaviest products and overcome resistance in dust system.

DISCHARGE #2 AND #3, Intermediate Liftings. These two intermediate settling chambers receive the next two lighter "fractions," after the heaviest "fraction" has been separated by weight at Discharge point #1. This provides the flexibility you want for the precise sizes your trade requires. You can even shift minute "fractions" from chamber to chamber—thus assuring maximum recovery of usable product.

DISCHARGE #4—final recoveries from light liftings. This last chamber is basically an expansion container to recover final liftings that would otherwise be lost to the exhaust system.

CARTER-DAY'S SUPERIOR FRACTIONATING ASPIRATOR

- Ideal for separating particles of the same size but having different weights, shapes or surface roughness.
- Ideal also in any processing field requiring precise separation of product other than by length, width and thickness.

DOES THE WORK OF TWO MACHINES:

Performs 4 clean, accurate separations...

to upgrade your product... improve your profits

Example:
**GRAIN
and SEEDS**



Heavy "throughs"



1st Intermediate

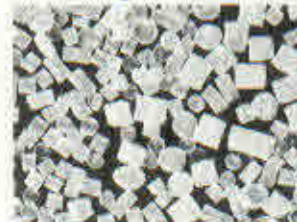


2nd Intermediate



Final light recoveries

Additional
Product
Examples:



ASPIRATOR SPECIFICATIONS

MODEL	FA24	FA48
Extreme Height	78 3/4"	79 1/2"
Extreme Width	43 3/4"	67 3/4"
Extreme Length	58"	58"
Height Feed Hopper	66"	66"
Size Feed Hopper	15" x 15"	15" x 15"
Dia. Air Discharge	10"	12"
No. Discharges	4	4
Size each Discharge	5" x 8"	5" x 16"
H. P. Required	1 1/2 or 2	2 to 3
Capacity	100-200 B.P.H.	200-400 B.P.H.
	125-250 cu. ft. per hr.	250-500 cu. ft. per hr.
Shipping Weight	1035 lbs.	1410 lbs.

We know of no Aspirator which will so accurately deliver closely defined separations—from primary product through intermediate products to final airborne dust fines. Ask us for detailed data.

CEA-Carter-Day

Minneapolis, Minnesota 55432
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A COMBUSTION EQUIPMENT ASSOCIATES COMPANY

Final finishing by precise separation

No. 4 Fractionating Aspirator

Located at head of automatic bagging scale, this machine has long been a standard of the seed industry for final finishing. Carter-Day's Superior Fractionating Aspirator is particularly adaptable to final finishing of pre-sized hybrid seed corn as the machine is designed for precise separation of material other than by length, width or thickness. Makes final removal of cracked corn, and other material of same size as pre-sized corn but having different weights, shapes or surface roughness, ranging from heavy particles to light dust. Two sizes, No. 24 and No. 48, available



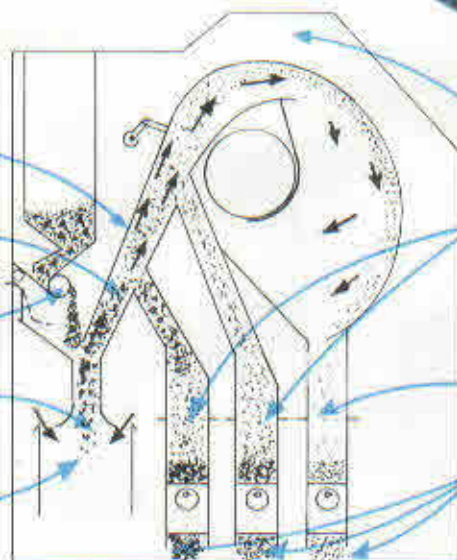
Adjustable Air Column — Lifting column tapered to permit proportioning of liftings directed to the 3 settling chambers.

Air Straightening Vanes — Vanes lessen tendency for air to travel transversely to column; reduces turbulence.

Uniform In-Feed — Rubber coated rolls direct uniform curtain of seed corn to air stream; no damage to seed and prevents bridging.

Turbulence Suppressor — Bell shaped inlet permits smooth, efficient air flow to minimize turbulence beyond inlet.

Discharge #1 — "Throughs" discharged here. Heaviest fraction out here.



Air Control — Self-locking micrometer type air control allows high degree of separation adjustments.

Discharge #2 and #3 — For intermediate liftings. These two chambers receive the next lighter "fractions" after the heaviest. Provides flexibility for precise sizes you want and assuring maximum recovery of usable seed corn.

Discharge #4 — Final recoveries from light liftings.

Discharge — No augers to damage seed corn. Conveying within machine is by air. No back pressures in chambers.

FRACTIONATING ASPIRATOR

Model	DIMENSIONS			Shipping Weight	H.P. Motor Required	Dust Collector Size
	Width	Length	Height			
24	43 1/4"	58"	78 3/4"	1035	1 1/2 or 2	No. 40*
48	67 1/4"	58"	79 1/2"	1410	2 to 5	No. 55*

*Dust Collector manufactured by Carter-Day Company.

CEA·Carter-Day



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A COMBUSTION EQUIPMENT ASSOCIATES COMPANY

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