

CARTER DAY

V.D.M.C. VERTICAL DROP MULTI-CLEAN ASPIRATOR



WORLDWIDE REPRESENTATION

CARTER DAY

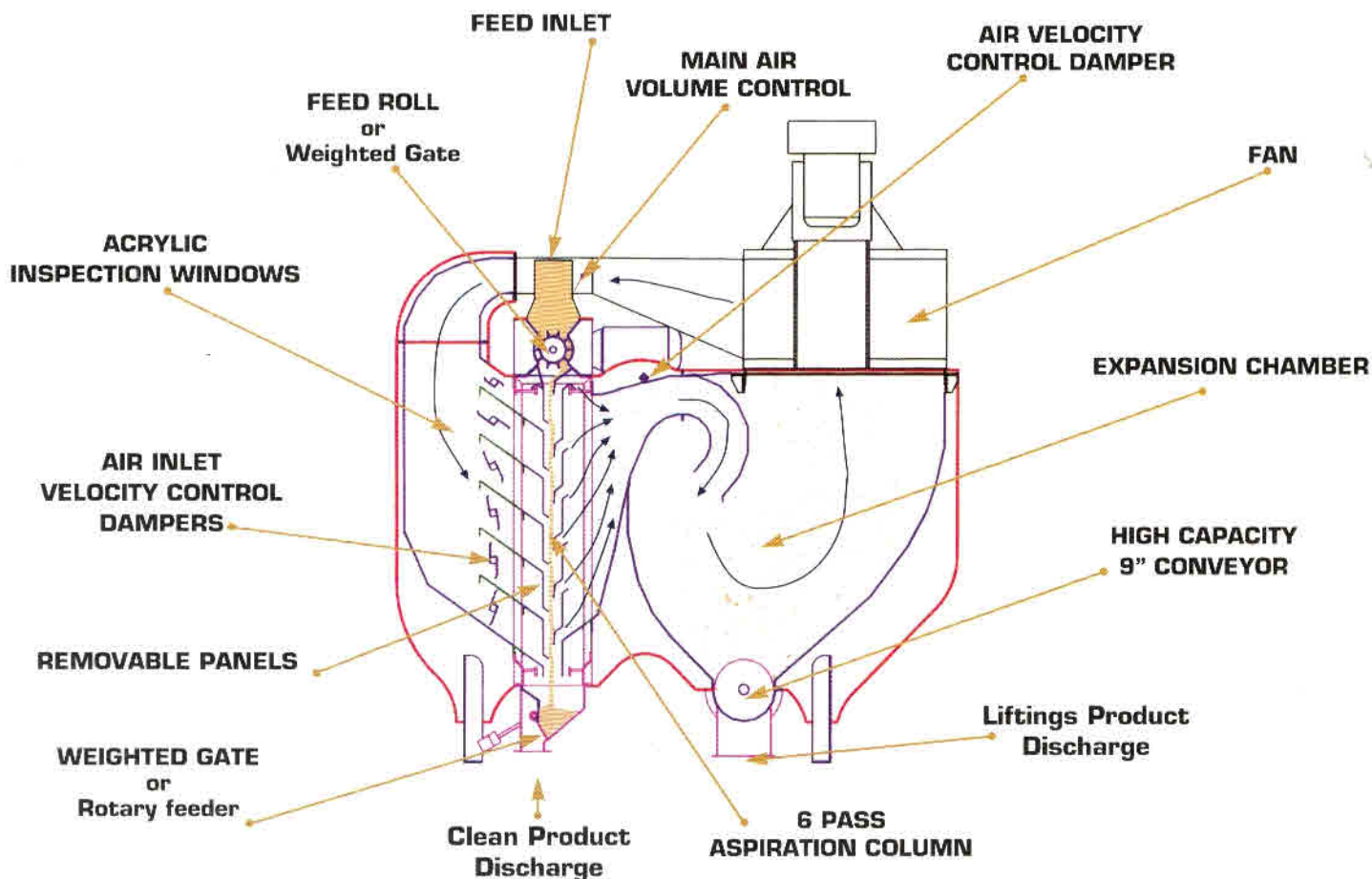
V.D.M.C.

VERTICAL DROP MULTI-CLEAN ASPIRATOR

Carter Day has been manufacturing quality processing equipment for over 100 years. We continue this tradition of quality equipment with the **VERTICAL DROP MULTI-CLEAN ASPIRATOR**.

The Carter Day **V.D.M.C.** has the efficiency and capacity for virtually any aspiration application involving cereal grains and other free flowing granular materials. The **V.D.M.C.** is our most efficient aspiration system.

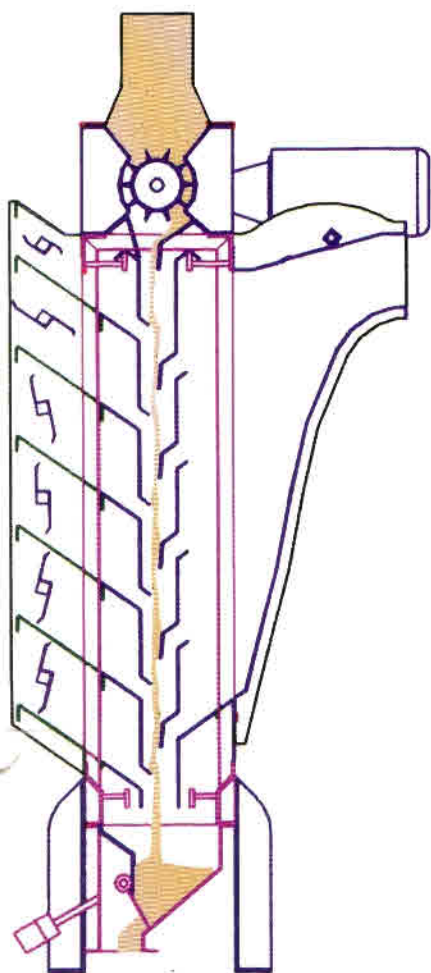
As the product enters the aspiration column, it is contacted by an air wash which removes light fines, straw, hulls, etc. The concentrated product free-falls through the aspiration column which by its design expands the product stream allowing for more efficient cleaning. The aspirated light materials are pulled through the aspiration column into the liftings chamber to settle out in the closed circuit model, or discharged to an outside collection system in the open circuit design.



VERTICAL DROP MULTI-CLEAN ASPIRATOR
CLOSED CIRCUIT DESIGN

This design reflects decades of experience manufacturing and selling V.D.M.C. Aspirators. Carter Day's worldwide sales representation assures you of service after the sale.

THE CARTER DAY ADVANTAGE



OPEN CIRCUIT

The patented performance engineered 6 pass aspiration column design provides a superior method of separating fines from free flowing granular material. The material is dropped in a free-fall vertical flow path into an opposing upward air stream to suspend the fines in the air stream for removal to the collection system. The column design is engineered with louvers in the panels which expand the product stream allowing a more effective aspiration.

The technological advancement of our patented aspiration column includes new patent pending design features.

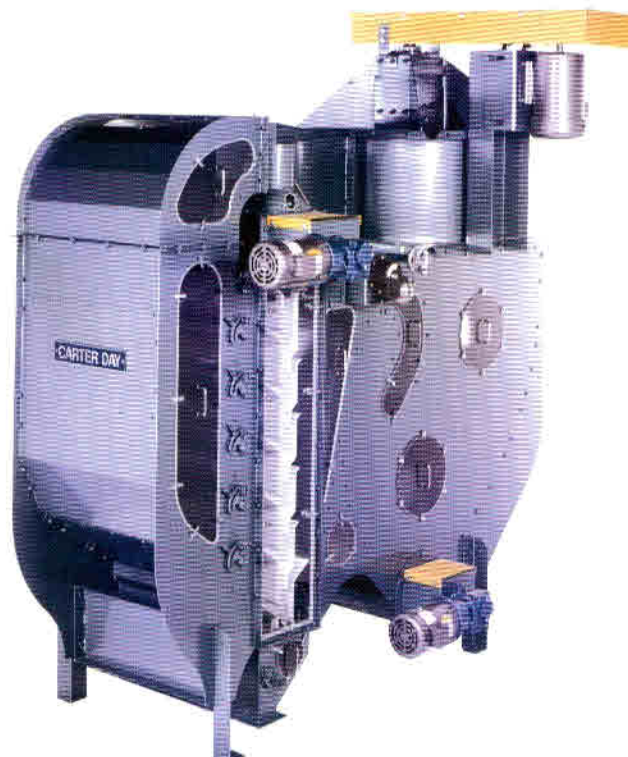
A system of removable full-view acrylic windows, and light-weight removable inner panels for visibility, easy clean-down and replacement. These panels are fabricated in 28" segments which can be stacked together to form our widest 112" machine. This system requires no tools allowing for complete clean-down or replacement in minutes.



THE CARTER DAY ADVANTAGE

Individually metered 6 pass air inlet control damper module for the control of air entering the aspiration column.

Air travels the path of least resistance enabling differences in the air velocity throughout the aspiration column affecting the efficiency of the separation. The air inlet control dampers allow precise distribution of the air at each of the air passes throughout the aspiration column allowing the operator to visually balance the air-to-product ratio to obtain optimal separation efficiency. While the main air velocity control damper controls the total volume of air within the entire system.



CLOSED CIRCUIT

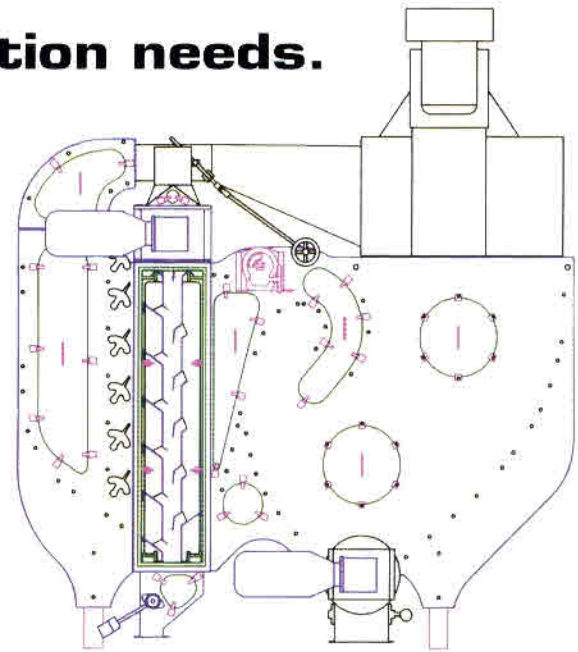
Complete product flow control is realized at all stages of the V.D.M.C.. The product flow can be controlled at the product entrance through a variable or constant speed direct-drive urethane-coated feed roll or a weighted gate. The clean discharged product can be controlled through a weighted gate or rotary valve. The liftings product discharge is controlled with a constant speed direct drive 9" liftings auger.

V.D.M.C.

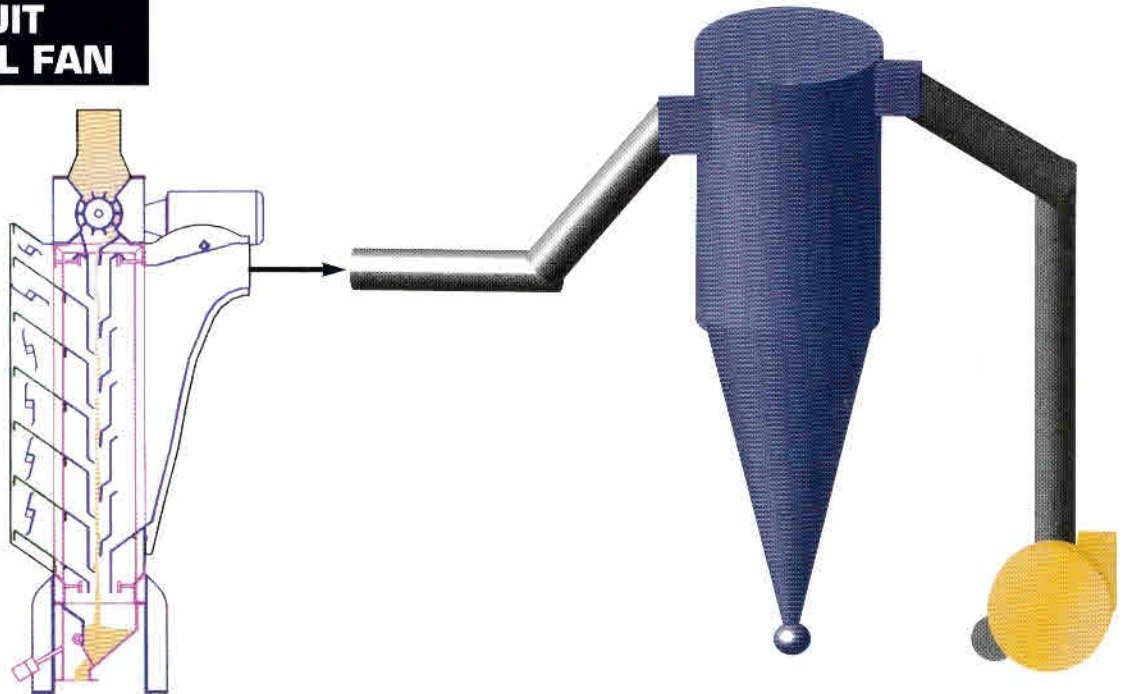
VERTICAL DROP MULTI-CLEAN ASPIRATOR ASPIRATION CONFIGURATION

The V.D.M.C. can be arranged in configurations
to
meet
your facilities aspiration needs.

CLOSED CIRCUIT MODELS



OPEN CIRCUIT WITH EXTERNAL FAN



CARTER DAY

PRODUCT FLOW CONFIGURATION

V.D.M.C. AVERAGE CAPACITY* OPEN & CLOSED CIRCUIT

MODEL	Whole Grain Lift dust	Whole Grain Lift Chaff & Seeds	Cracked Grain Lift Fines	Small Granulars Lift Fines
28" BPH MT/Hr CFM	1,150 bph 31 MT/hr 2,800 CFM	350 bph 9 MT/hr 2,800 CFM	300 bph 8 MT/hr 2,250 CFM	250 bph 7 MT/hr 1,950 CFM
56" BPH MT/Hr CFM	2,300 bph 63 MT/hr 5,600 CFM	700 bph 19 MT/hr 5,600 CFM	600 bph 16 MT/hr 4,500 CFM	500 bph 14 MT/hr 3,900 CFM
84" BPH MT/Hr CFM	3,450 bph 94 MT/hr 8,400 CFM	1,050 bph 28 MT/hr 8,400 CFM	900 bph 24 MT/hr 6,750 CFM	750 bph 21 MT/hr 5,850 CFM
112" BPH MT/Hr CFM	4,600 bph 125 MT/hr 11,200 CFM	1,400 bph 38 MT/hr 11,200 CFM	1,200 bph 32 MT/hr 9,000 CFM	1,000 bph 28 MT/hr 7,000 CFM

*Capacity Based on Wheat at 60lbs./bu. (48lbs./C.U. Ft.)

MODEL	Height	Length	Width	Net Weight	Motor Requirement
28" O.C. 28" C.C.	80", 2032mm 102", 2591mm	34", 864mm 90", 2286mm	51", 1296mm 66", 1677mm	920 lbs., 419kg. 1850 lbs., 841kg	F.R. .5 HP, .37kw L.C. .5 HP, .37kw Fan 5 HP, 4kw
56" O.C. 56" C.C.	84", 2134mm 102", 2591mm	34", 864mm 90", 2286mm	79", 2007mm 89", 2261mm	1330 lbs., 605kg. 2670 lbs., 1214kg.	F.R. 1HP, .75kw L.C. .5HP, .37kw Fan 5/10 HP, 4kw/7.5kw
84" O.C. 84" C.C.	91", 2312mm 111", 2820mm	34", 864mm 97", 2464mm	107", 2718mm 117", 2972mm	1750 lbs., 796kg. 3470 lbs., 1578kg.	F.R. 1.5 HP, 1.1 kw L.C. .5 HP, .37kw Fan 10/15HP, 7.511kw
112" O.C. 112" C.C.	91", 2312mm 111", 2820mm	34", 864mm 97", 2464mm	135", 3429mm 146", 3709mm	2160 lbs., 982kg. 4180 lbs., 1900kg.	F.R. 2 HP, 1.5kw L.C. .5 HP, .37kw FAN 10/15/20HP, 7.5, 11, 15kw

*O.C.=Open Circuit
*C.C.=Closed Circuit

*F.R.= Feed Roll
*L.C.= Liftings Conveyor

Complete laboratory service is at your disposal. Carter Day's facility enables us to test your unique product sample in laboratory or full size equipment to aid in determining the right machine for your application. We invite you to participate in tests conducted at our facility in Minneapolis, Minnesota, USA.

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