CARTER DAY

VDI ASPIRATION SYSTEMS

CARTER DAY

MODELS & SP

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



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

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VDMC ASPIRATOR CAPACITIES							
APPLICATION	28	56	84	112 (11200 cfm 6")			
Wheat Aspirate: Rough	900 Bu/Hr-24 mt/Hr (2200CFM 6")	1800 - 48 (4300CFM 6")	2700 - 72 (6400CFM 6")	3600 - 96 (8500CFM 6")			
Wheat Aspirate: Chaff/Seed	500 Bu/Hr - 13 mt/hr (2200CFM 6")	1000 - 26 (4300CFM 6")	1500 - 39 (6400CFM 6")	2000 - 52 (8500CFM 6")			
Wheat Aspirate: Brokens	300 Bu/Hr - 8 mt/hr (2200CFM 6")	600 - 16 (4300CFM 6")	900 - 24 (6400CFM 6")	1200 - 32 (8500CFM 6")			
Barley Aspirate: Rough	900 Bu/Hr - 19 mt/hr (2200CFM 6")	1800 - 38 (4300CFM 6")	2700 - 57 (6400CFM 6")	3600 - 76 (8500CFM 6")			
Barley Aspirate: Chaff/Seed	500 Bu/Hr - 10 mt/hr (2200CFM 6")	1000 - 20 (4300CFM 6")	1500 - 30 (6400CFM 6")	2000 - 40 (8500CFM 6")			
Barley Aspirate: Brokens	300 Bu/Hr - 6 mt/hr (2200CFM 6")	600 - 12 (4300CFM 6")	900 - 18 (6400CFM 6")	1200 - 24 (8500CFM 6")			
Corn Aspirate: Rough	900 Bu/Hr - 22 mt/hr (3000CFM 6")	1800 - 44 (5700CFM 6")	2700 - 66 (8500CFM 6")	3600 - 66 (11400CFM 6")			
Corn Aspirate: Chaff/Seed	350 Bu/Hr - 8 mt/hr (3000CFM 6")	700 - 16 (5700CFM 6")	1050 - 24 (8500CFM 6")	1400 - 32 (11400CFM 6")			
Corn Aspirate: Brokens	300 Bu/Hr - 7 mt/hr (3000CFM 6")	600 - 14 (5700CFM 6")	900 - 21 (8500CFM 6")	1200 -28 (11400CFM 6")			
Paddy Aspirate Hulls	500 Bu/Hr - 10 mt/hr (2200CFM 6")	1000 - 20 (4300CFM 6")	1500 - 30 (6400CFM 6")	2000 - 40 (8500CFM 6")			
White Rice Aspirate Fines	500 Bu/Hr - 13 mt/hr (2200CFM 6")	1000 - 26 (4300CFM 6")	1500 - 39 (6400CFM 6")	2000 - 52 (8500CFM 6")			

Oats 32 Wheat 60 Sunflower Seed 32 Safflower 56 Corn (Maize) 56 Paddy Rice 45 Mustard 60 erials, the physical Soybeans Canola Sorghum Capacities shown are in busies and metric tons (one metric ton weighs 1,000 kilos or 2,205 pounds). Capacities shown are based on U.S. harvesting practices. Dry orains are considered to house a metric and the state of the stat

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MODEL	l la inht	l a a ath		Net	Motor
MODEL	Height	Length	vviatn	vveight	Requirement
28" O.C.	80", 2032mm	34", 864mm	51", 1296mm	920 lbs., 419kg.	F.R5 HP, .37kw
28 0.0.	102 , 2591mm	90 , 2286mm	66,1677mm	1850 IDS., 84 IKg	Fan 5 HP, 4kw
56" O.C.	84", 2134mm	34", 864mm	79", 2007mm	1330 lbs., 605kg.	F.R. 1HP, .75kw
56" C.C.	102", 2591mm	90", 2286mm	89", 2261mm	2670 lbs., 1214kg.	L.C5HP, .37kw Fan 5/10 HP,4kw/7.5kw
84" O.C.	91", 2312mm	34", 864mm	107", 2718mm	1750 lbs., 796kg.	F.R. 1.5 HP, 1.1 kw
84" C.C.	111", 2820mm	97", 2464mm	117", 2972mm	3470 lbs., 1578kg.	L.C5 HP, .37kw Fan10/15HP,7.511kw
112" O.C.	91", 2312mm	34", 864mm	135", 3429mm	2160 lbs., 982kg.	F.R. 2 HP, 1.5kw
112" C.C.	111", 2820mm	97", 2464mm	146", 3709mm	4180 lbs., 1900kg.	L.C5 HP, .37kw FAN10/15/20HP,7.5,11,15kw
*0.C.=Oper	*F.R.= Feed Roll				
0.0.=0108	L.O. = Linungs Conveyor				

AG35-5/11

NOTE:

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CONSTRACT OF





VERTICAL DROP MULTI-CLEAN ASPIRATOR PATENT PENDING PERFORATED PANEL



WORLDWIDE REPRESENTATION

CARTER DAY

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.



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 CASCADING ASPIRATION COLUMN

The patented performance engineered 6 pass aspiration cascading 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 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 expands the product stream allowing for a more effective aspiration.

Our New Patent Pending Perforated Panels found on the incoming air side of the product stream allows for an even and constant flow of air on the product. This addition takes this aspirator to a new level. 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.



As the product cascades through the 40" aspiration column it is constantly hit with incoming air. That means not just 6 pass of 1" of air but the full cascading column is hit with opposing air for a highly efficient aspiration separation. The perforation size is adjusted per the product in order to best serve proper cascading.



Our 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. A system of removable full-view acrylic windows, and lightweight removable inner panels for visibility, easy clean-down and replacement.



A molded urethane feed roll accurately controls the feed rate and provides a positive shut-off. The urethane feed roll is highly wear resistance and its smooth surface resists build-up of product and contaminations. VFD controlled variable speed drive accommodates a variety of feed rate ranges.







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.



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