North Valley
CONSTRUCTION GROUP
AG & MILL EQUIPMENT

Aspirator

LMC Aspirators are designed for product separation by density and aerodynamic profile.

Multiple configurations provide optimum performance for your specific pre-cleaning or air separation finishing needs.

The aspirator has proven to be the most efficient available and is used in many different processing industries. It is designed to create a streamlined flow vacuum that is drawn through the product. As the airflow is evenly distributed, the separation is more easily controlled and more accurate.

An absence of a controlled flow will result in leaving light material in the good product or, if operated aggressively, heavy, good product in the lifting. This design allows for product separation by density and aerodynamic profile. Multiple configurations are available to provide optimum performance and maximum flexibility.

Its sturdy industrial calibre design will give years of around-the-clock service with minimum attention.

Applications for the industrial aspirators include agricultural products and recyclables.

STANDARD FEATURES:

- 14 gauge bolted carbon steel construction
- In-feed sides 7 gauge carbon steel
- Vernier controlled air bleed
- Analog monitoring package
- Magnehelic gauge 0-10" S.P.W.G.
- Rack and pinion in-feed gate
- Outfall tanks with airlock or auger discharge
- Vibratory in-feed pan
- Aspirator/Shaker combination available
- Mild steel and stainless steel

OPTIONS:

A- Includes: aspirator body with mounting brackets, flanged rectangle to round transition, in-feed control gate, analog monitoring package, vernier airflow control.

B- Includes: aspirator body with mounting brackets, flanged rectangle to round transition, in-feed control gate, vibratory in-feed pan or adjustable slide pan, analog monitoring package, vernier airflow control.

C- Includes: aspirator body with mounting brackets, flanged rectangle to round transition, in-feed control gate, vibratory in-feed pan or adjustable slide pan, outfall tank, analog monitoring package, vernier airflow control.

D- Includes: aspirator body with mounting brackets, flanged rectangle to round transition, in-feed control gate, vibratory in-feed pan or adjustable slide pan, outfall tank with airlock, analog monitoring package, vernier airflow control.

E- Includes: Aspirator body with mounting brackets, flanged rectangle to round transition, in-feed control gate, vibratory in-feed pan or adjustable slide pan, outfall tank with auger, analog monitoring package, vernier airflow control.

- **Master Valve Control** - Used to set macro adjustments to the air flow
- **Air Bleed Valve** - Used for micro control and adjustment to the air flow.

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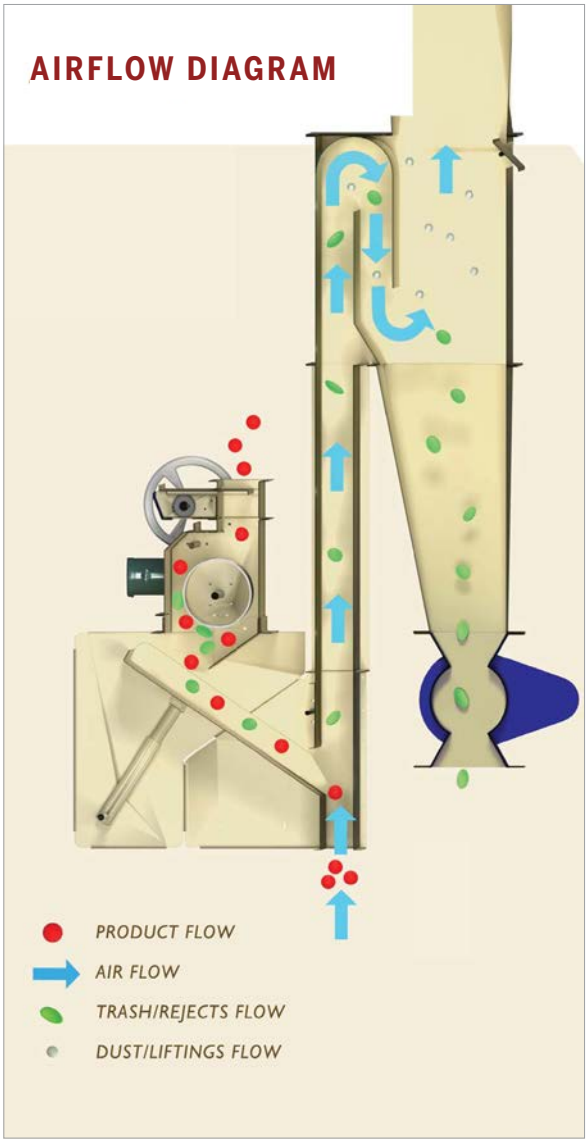
Aspirator *cont'd*

Model	Airflow (CFM) at 2500 fpm	Airflow (CFM) at 3000 fpm	Airflow (CFM) at 3500 fpm	Airflow (CFM) at 4000 fpm
184	1250	1500	1750	2000
244	1667	2000	2333	2667
246	2500	3000	3500	4000
304	2083	2500	2917	3333
306	3125	3750	4375	5000
364	2500	3000	3500	4000
366	3750	4500	5250	6000
368	5000	6000	7000	8000
424	2917	3500	4083	4667
426	4375	5250	6125	7000
428	5833	7000	8167	9333
484	3333	4000	4667	5333
486	5000	6000	7000	8000
488	6667	8000	9333	10667
604	4167	5000	5833	6776
606	6250	7500	8750	10000
608	8333	10000	11667	13333
724	5000	6000	7000	8000
726	7500	9000	10500	12000
728	10000	12000	14000	16000
846	8750	10500	12250	14000
966	10000	12000	14000	16000
1086	11250	13500	15750	18000
1206	12500	15000	17500	20000

AIRFLOW DIAGRAM



SEE THE LMC ASPIRATOR IN ACTION.

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Aspirator *cont'd*

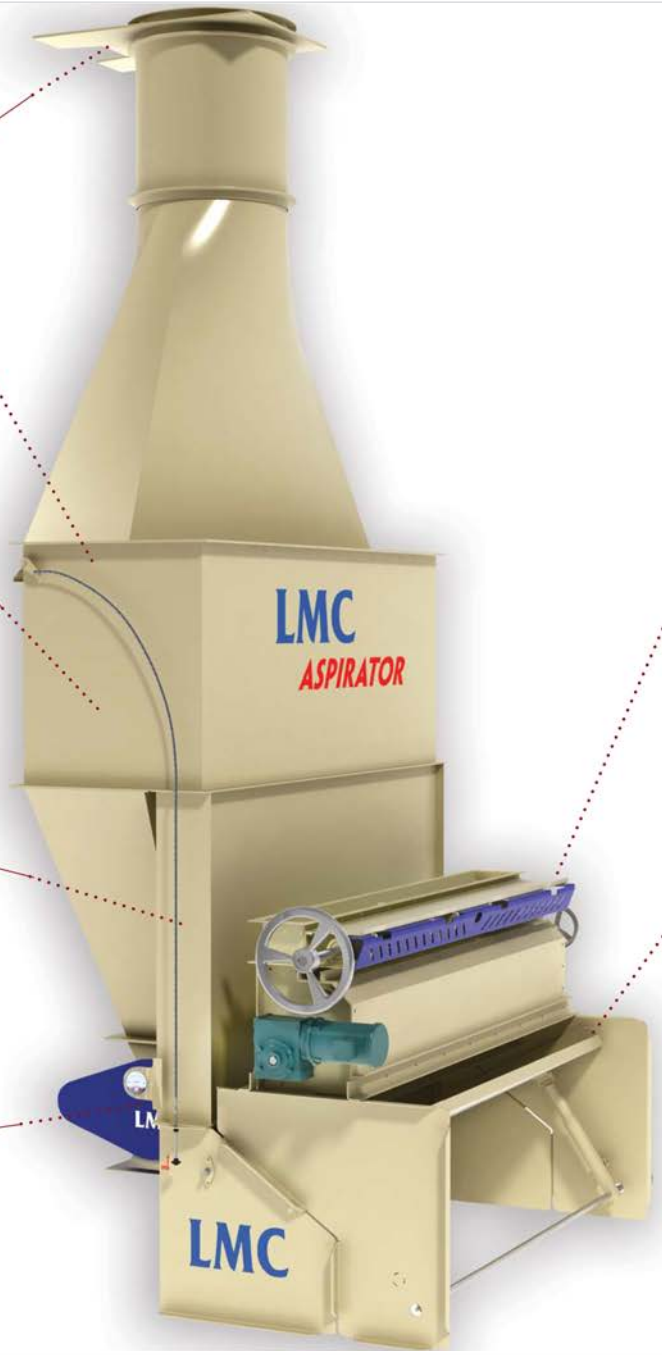
MASTER CONTROL VALVE
This valve is used to set macro adjustments to the air flow.

AIR BLEED VALVE
This valve is used for micro control and adjustment to the air flow.

EXPANSION CHAMBER
The liftings enter an expansion chamber to allow the reject product to drop out of the air stream. The liftings are conveniently discharged for inspection and, if needed, adjustment to the air stream can be made.

AIR COLUMN
The air column allows the product to be lifted and stratified for a more precise separation.

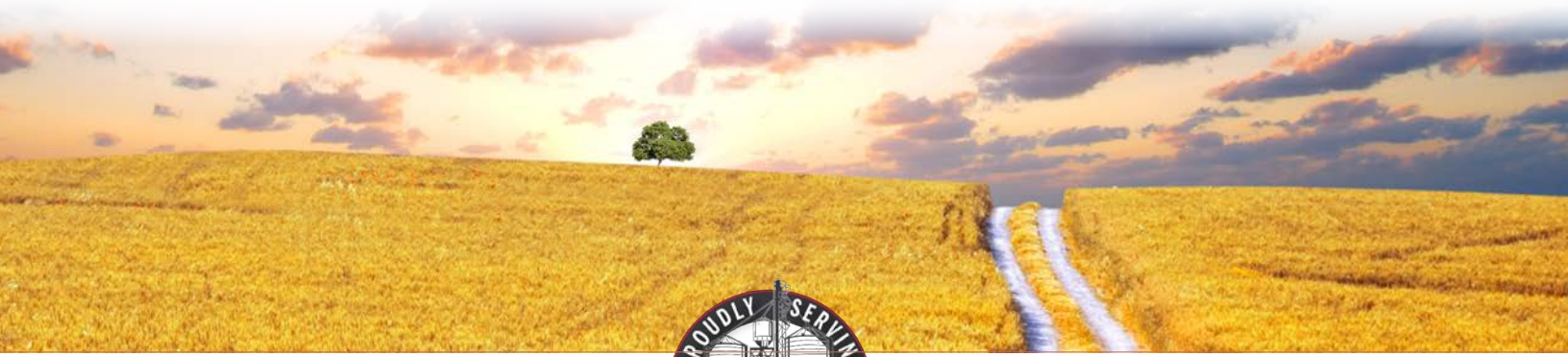
OUTFALL HOPPPER & AIRLOCK
The outfall hopper and airlock allow the liftings to discharge with no air loss in the separation process.



VARIABLE SPEED ROLL FEEDER (OPTIONAL)
The product is introduced by using a variable speed controlled roll feeder. The roll feeder enables the operator to easily and accurately adjust the flow to fit each individual situation.

ADJUSTABLE IN-FEED
The in-feed pan introduces the product into the air stream. The feed rate can be adjusted using a vibratory feeder option or slide pan option.

OPTIONAL VIBRATORY FEEDER PAN



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