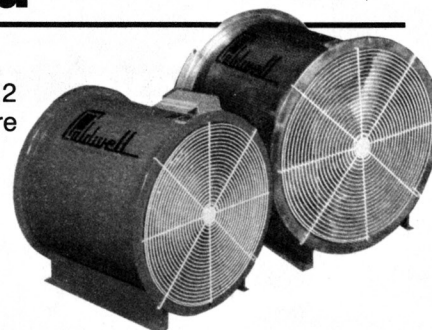


# AERATION & DRYING

## Axial Fans

Caldwell Axial Fans operate at 3450 RPM for low static pressure applications. Diameters range from 12 to 28 inches, horsepower from .75 to 12.5. All fans are built of heavy gauge steel. They're available with or without controls, with either galvanized or painted finish. Most fans are available with Caldwell Systa-Mizer motors, for up to 12% lower energy consumption. Standard motors are totally enclosed, air-over. Most models are CSA approved.



**When ordering:** Specify fan model number, computerized part number, horsepower, phase, voltage, and with or without controls.

### Model Code:

AF — 18 — 3 — 1 — 2  
 Aerial Fan — Fan — Horse — Phase — Voltage  
                   Diameter      Power

### Axial Fans 3450 RPM Enamel finish (with Controls)

Caldwell Model Number	Standards See Right	Fan Diameter	Horse Power	Phase	Voltage	Full Load Amperage	Fan Blade Diameter	Bolt Circle Diameter
AF12-.7511	ACH	12"	.75	1	115/230	10/5	11 <sup>7</sup> / <sub>8</sub> "	13 <sup>1</sup> / <sub>8</sub> "
AF12-.753	AF	12"	.75	3	230/460	2.5/1.25	11 <sup>7</sup> / <sub>8</sub> "	13 <sup>1</sup> / <sub>8</sub> "
AF14-111	ACH	14"	1	1	115/230	12/6	13 <sup>7</sup> / <sub>8</sub> "	15 <sup>3</sup> / <sub>8</sub> "
AF14-13	AF	14"	1	3	230/460	2.7/1.35	13 <sup>7</sup> / <sub>8</sub> "	15 <sup>3</sup> / <sub>8</sub> "
AF18-112	AH	18"	1.5	1	230	8	18"	19 <sup>3</sup> / <sub>4</sub> "
AF18-132	ADE	18"	1.5	3	230	4.2	18"	19 <sup>3</sup> / <sub>4</sub> "
AF18-134	ADE	18"	1.5	3	460	2.1	18"	19 <sup>3</sup> / <sub>4</sub> "
AF18-312	ADE	18"	3	1	230	17	18"	19 <sup>3</sup> / <sub>4</sub> "
AF18-332	ADE	18"	3	3	230	8.4	18"	19 <sup>3</sup> / <sub>4</sub> "
AF18-334	ADE	18"	3	3	460	4.2	18"	19 <sup>3</sup> / <sub>4</sub> "
AF24-512	ADEG	24"	5	1	230	35	24"	25 <sup>7</sup> / <sub>8</sub> "
AF24-532	ADEG	24"	5	3	230	18	24"	25 <sup>7</sup> / <sub>8</sub> "
AF24-534	ADE	24"	5	3	460	9	24"	25 <sup>7</sup> / <sub>8</sub> "
AF24-712	ADEG	24"	7.5	1	230	42	24"	25 <sup>7</sup> / <sub>8</sub> "
AF24-732	ADEG	24"	7.5	3	230	24	24"	25 <sup>7</sup> / <sub>8</sub> "
AF24-734	ADE	24"	7.5	3	460	12	24"	25 <sup>7</sup> / <sub>8</sub> "
AF24-1012	ADEG	24"	10.5	1	230	54	24"	25 <sup>7</sup> / <sub>8</sub> "
AF24-1032	ADEG	24"	10.5	3	230	25	24"	25 <sup>7</sup> / <sub>8</sub> "
AF24-1034	ADE	24"	10.5	3	460	12.5	24"	25 <sup>7</sup> / <sub>8</sub> "
AF28-1212	ADEG	28"	12.5	1	230	64	28"	30"
AF28-1232	ADEG	28"	12.5	3	230	38	28"	30"
AF28-1234	ADE	28"	12.5	3	460	19	28"	30"

### Standards & Options:

(A) Single Phase Totally Enclosed Air Over Switchless Motor. Three Phase Totally Enclosed Air Over Motor. (C) With 36" Cord and 115V Male Plug, (D) With Internal Thermal Protection, (E) With Magnetic Contactor Control Mounted on Fan in Weather Proof Galvalume Enclosure, (F) Without Automatic Overload, or External Controls, (G) With Interlocked Electrical 115V Terminal Board for Caldwell Heater, (H) With Automatic Motor Overload Protection and No External Controls. Many options listed above may be supplied upon request. CSA models are also available.

### Axial Fans Static Pressure (Inches)

Fan Models	0.5	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
Air Flow Ratings — CFM														
AF12-.75	2200	1920	1050	480	240	—	—	—	—	—	—	—	—	—
AF14-1	2820	2550	2250	1350	920	640	350	—	—	—	—	—	—	—
AF18-1	4925	4450	3925	3250	2150	1450	900	—	—	—	—	—	—	—
AF18-3	5650	5400	5100	4700	4300	3250	2400	1800	1200	—	—	—	—	—
AF24-5	12250	11600	10900	10100	9150	8000	6500	4950	3900	3000	—	—	—	—
AF24-7	12603	12130	11630	11157	10617	10025	9432	6739	5250	4400	3800	—	—	—
AF24-10	14000	13800	13300	13000	12350	11400	10150	7000	5300	4300	3400	2500	1500	600
AF28-12	16300	15700	15100	14435	13700	12950	12200	11350	10500	9550	8400	7150	6050	5250

(SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE)

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SALINA, KANSAS

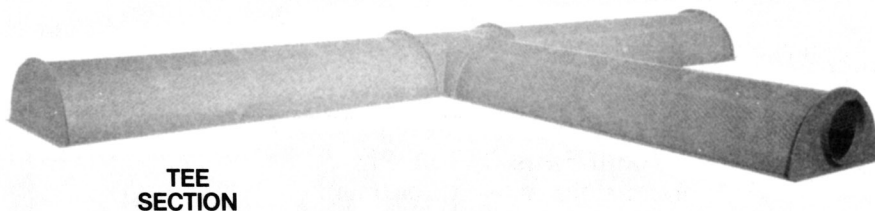
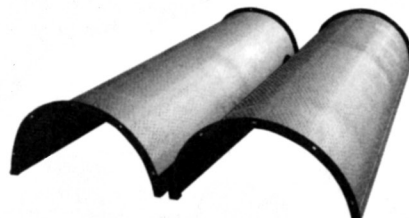
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1-800-432-8292  
1-800-447-0522



# AERATION & DRYING

## Flat Storage Aeration

AD 777

TEE  
SECTIONOPEN  
END  
SECTION

Aeration lowers handling costs and enables you to maintain the market quality of your stored grain. Grain Belt aeration guards against mold formation and insect activity—prevents moisture transfer from warm to cooler grain, thereby eliminating heat build-up.

### CONSTRUCTION:

- Flat bottom parabolic arch
- Pipe ribs at 16" centers
- Lip perforated metal covered
- Sheet metal brow joint closure

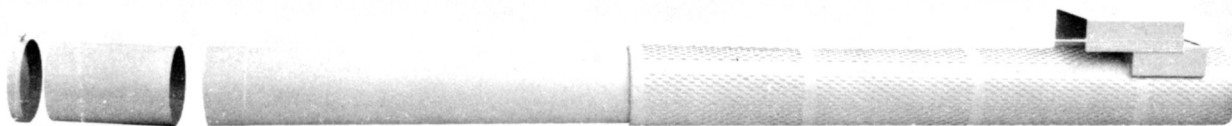
### SPECIFICATIONS

Width: 36"  
Height: 18"  
Length: 10'  
Surface area  
per lin. ft.: 4.7 sq. ft.

AD 777 Aeration available in open end section, closed end section, supply pipe section, or T-section.

## Tank Aeration

AD 180



Grain belt tank aeration protects your grain from moisture condensation, mold, insect infestation and overheating.

The tank aerator, when equipped with a gate, serves a double purpose:

1. Provides a means for cooling the grain.
2. Provides a means of emptying the tank within a few feet of bottom. By inserting an auger inside aerator tube and opening the gate, the tank is ready for emptying (gate handle runs inside of tube).

We can fabricate any aeration system to fit your needs. No tank or building too large or too small.

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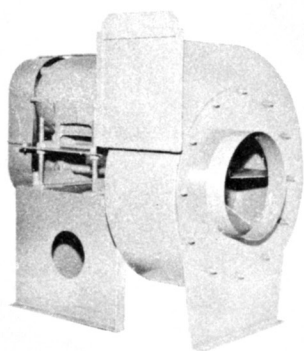


# AERATION & DRYING

## Fans

### MILL PLATE EXHAUSTER TYPE – FOR AERATION OR DUST CONVEYING

Mill plate exhaustor complete with adjustable motor base, blast gate and belt guard. Shown (but not included): motor, sheaves and V-belts. Single and three-phase, director or V-belt drive available



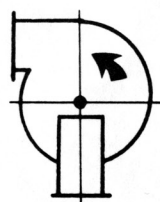
When ordering Mill Plate Exhaustor Type Fans — always give the Size No., Arrangement, and Type.

Fan Size	Motor H.P.	Fan Size	Intake Dia.
#20	1½	#20	8"
#25	3	#25	11"
#30	5	#30	13"
#35	7½	#35	15"
#40	10	#40	17"

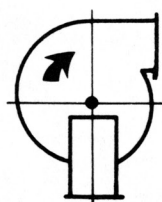
#### ARRANGEMENTS

The direction of rotation is determined by standing on the drive side to see whether it is counter or clockwise.

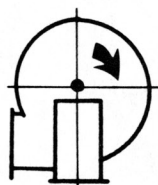
When ordering be sure to specify figure number shown in diagrams.



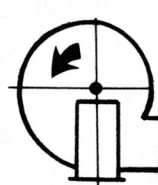
No. 1  
Counter-Clockwise  
Top Horizontal



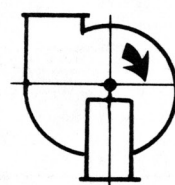
No. 2  
Clockwise  
Top Horizontal



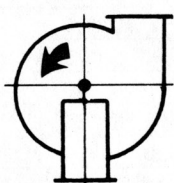
No. 3  
Clockwise  
Bottom Horizontal



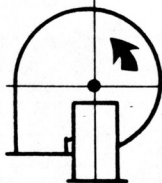
No. 4  
Counter-Clockwise  
Bottom Horizontal



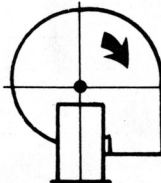
No. 5  
Clockwise  
Up Blast



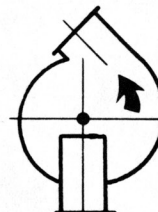
No. 6  
Counter-Clockwise  
Down Blast



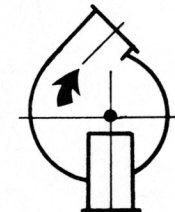
No. 7  
Counter-Clockwise  
Down Blast



No. 8  
Clockwise  
Down Blast



No. 9  
Counter-Clockwise  
Angular



No. 10  
Clockwise  
Angular

Our engineers can determine motor, sheave, and belt sizes by calculating static pressure and air volume. Furnish type, depth and bushels of grain to be aerated.

Send your worn or damaged blower blades to us for expert rebuilding. All rebuilt blades are "DYNAMICALLY BALANCED" for top efficiency.

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SALINA, KANSAS

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# AERATION & DRYING

## Dust Collectors

Grain Belt long cone cyclone collectors are designed for collecting fine materials such as cotton seed meal, bran, corn meal, flour, dust, etc. Seams are welded, making it ideal for either inside or outside installations.

We custom make collectors of all types to meet various requirements and to fit any installation.

When ordering, please give the following information:

A = Diameter inlet

B = Diameter of barrel

C = Diameter outlet

D = Barrel height

E = Cone height

H = Overall height

J = Diameter of skimmer

L = Skimmer height

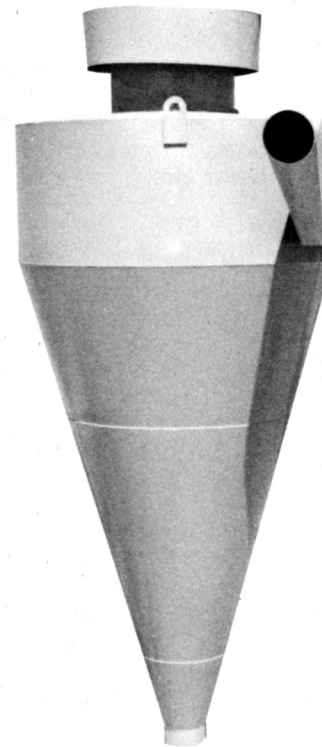
Gauge of metal

Black iron: plain or abrasion resistant

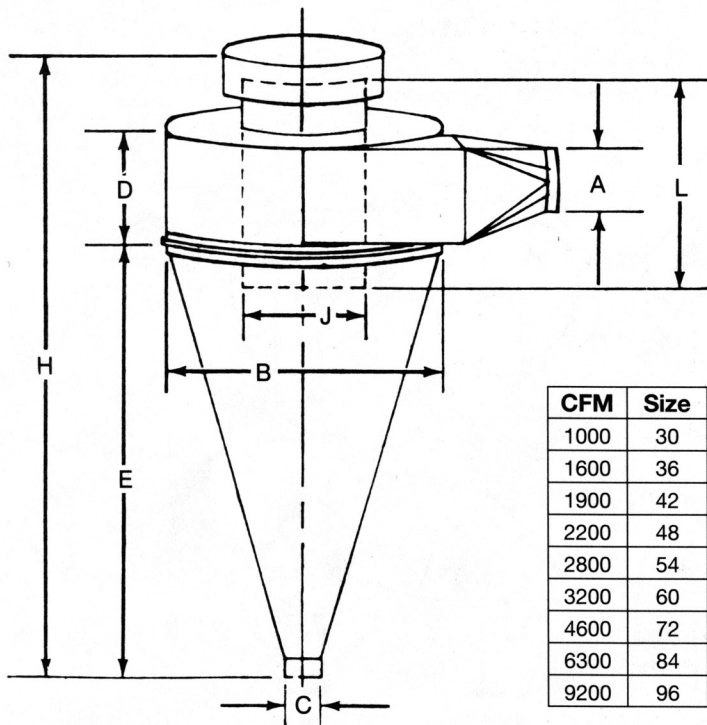
Right hand or left hand inlet

One-piece or two-piece construction

Angle flanged cone to barrel recommended for diameters 60" and larger.



Right Hand



CFM	Size	A	B	C	D	E	H	J	L
1000	30	6	30	7	13	45	77	12	28
1600	36	8	36	7	15	50	84	14	30
1900	42	9	42	8	18	63	100	16	33
2200	48	10	48	8	20	72	113	18	37
2800	54	12	54	8	22	81	129	21	41
3200	60	13	60	8	24	90	140	23	43
4600	72	15	72	10	30	108	166	28	51
6300	84	18	84	10	36	126	194	32	59
9200	96	22	96	12	40	144	216	37	63

Special sizes and materials available on request.  
Call us for prices.

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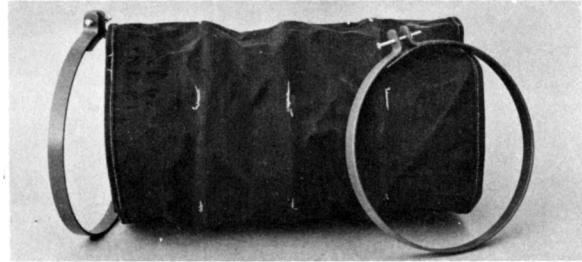


# AERATION & DRYING

## Connectors & Hose

### Canvas Connectors

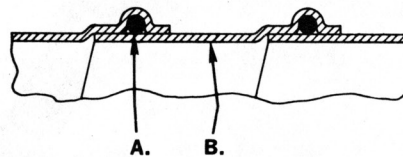
- Long-lasting flexible connection for joining fan to transition of air duct.
- Made of heavy canvas.
- Metal rings inside to hold shape.
- Metal band clamp to secure each end of connector.



### Flexible Hose

Type-SC ducting performs especially well in low-pressure, light-duty areas. It is best suited for air handling and fume control.

FABRIC	Medium weight, single ply cotton coated with neoprene
TEMPERATURE RANGE	-40° to +250° F
COLOR	Black
DIAMETERS	Stock: 1" thru 24" I.D. Other diameters available upon request
LENGTHS	Stock: 12½' lengths Up to 50 foot available Smaller lengths available

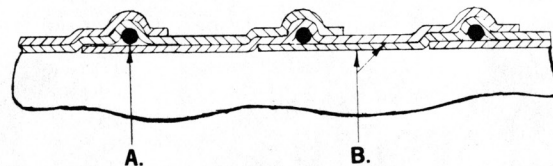


#### Construction:

- A. Steel wire helix fully encased.  
B. Single-ply, medium-weight cotton impregnated with neoprene rubber.

Type-DC ducting is exceptionally reliable and strong. Its best applications are air handling, fume control, dust collection, and light material handling.

FABRIC	Double ply cotton coated with neoprene
TEMPERATURE RANGE	-40° to +250° F
COLOR	Black
DIAMETERS	1" thru 24" I.D.
LENGTHS	Stock: 12½' lengths Up to 50 foot available Smaller lengths available



#### Construction:

- A. Steel wire helix fully encased.  
B. Double-ply, medium-weight cotton impregnated with neoprene rubber.

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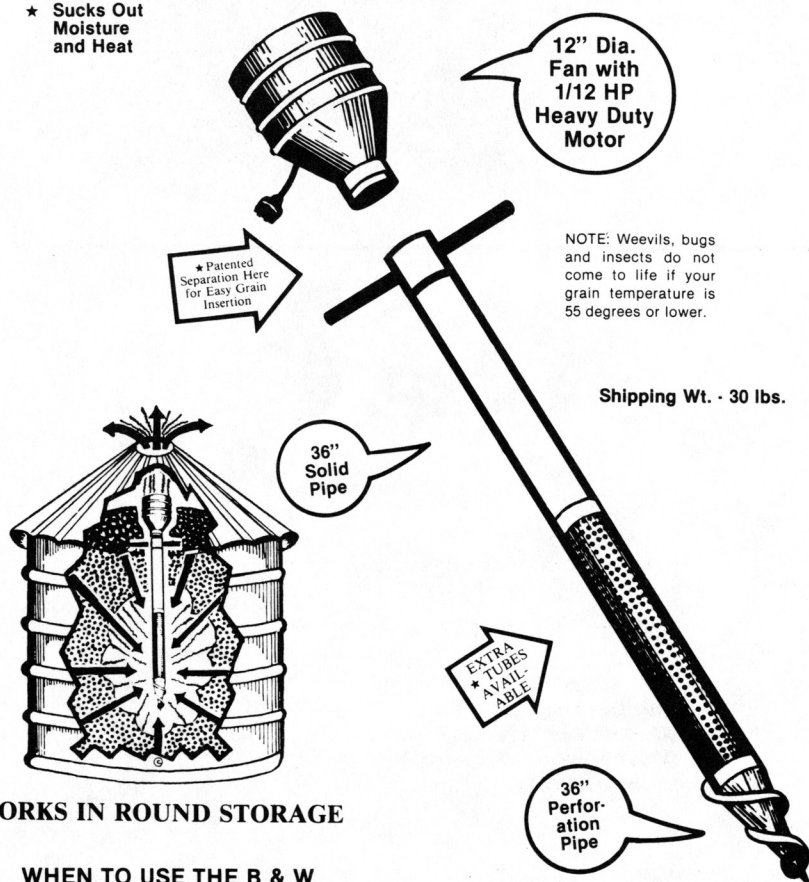
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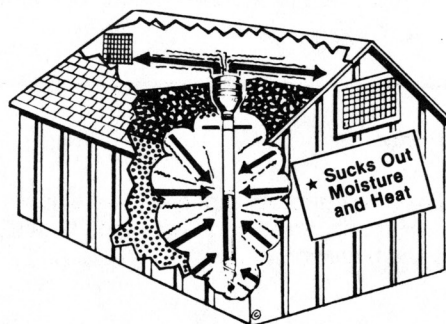
# AERATION & DRYING

## Grain Aerator and Drier

- ★ Sucks Out Moisture and Heat



THIS AMAZING AERATOR IS WORKING WONDERS FOR THOUSANDS OF FARMERS — PUT IT TO WORK FOR YOU TODAY!



### WORKS IN FLAT STORAGE

- No more costly moving of grain in your troubled hot areas.
- Economical drying & aerating of your grain in either flat or round storage.
- Instant action to remove hot spots - knock out moisture.
- Reaches deep - aerates grain up to 18' deep
- Extra tubes may be purchased and fan heads may be moved around as needed.

### WORKS IN ROUND STORAGE

#### WHEN TO USE THE B & W AERATOR and DRIER:

- To harvest your grain earlier.
- To remove moisture from your grain.
- To remove heat and moisture when grain is heating.
- To eliminate top crusting and sweating.
- To stop condensation.
- To cool your grain down to 45 degrees during the winter months.

#### HOW TO USE THE B & W AERATOR and DRIER:

1. Screw tube section into grain full depth as near the center of bin as possible.
2. Attach motor and fan head.
3. Check your grain temperature.
4. Plug into 115 volt, 60 cycle outlet.
5. If grain is heating, operate continually, even in high humidity or if raining.

- EASILY MOVED FROM BIN TO BIN.
- TOTALLY ENCLOSED DUST PROOF MOTOR, WITH A FULL YEAR WARRANTY

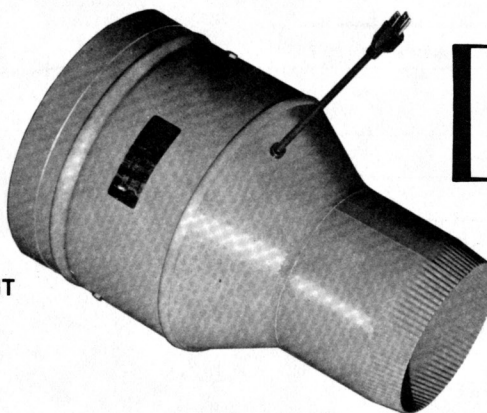
★ CSA & UL Approved Units Available

Pat. No. 3,106,148, 3,834,294 & Other Foreign Pat. Pending.

ALSO AVAILABLE

### 8" GRAIN AERATOR FAN

- ★ 12" SUCTION FAN
- ★ 110 VOLT HEAVY DUTY MOTOR
- ★ IDEAL FOR USE IN GOVERNMENT STORAGE BINS



8" REDUCER FITS 8" AERATION TUBE

Shipping Wt. - 14 lbs.

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