

The Dramm AME HAF System maximizes air flow in a greenhouse by matching specific fans to specific greenhouses. By providing us with information about your greenhouse, we can customize a horizontal air flow system to your greenhouse.

Business Name: _____ Business Address: _____
Contact: _____ Distributor: _____
Phone #: _____ Fax #: _____ e-mail: _____

Greenhouse Dimensions

Bay Length: _____
Bay Width: _____
Number of Bays: _____
Post Spacing: _____
Gutter Height: _____
Truss Height: _____
Manufacturer: _____

Greenhouse Systems Information

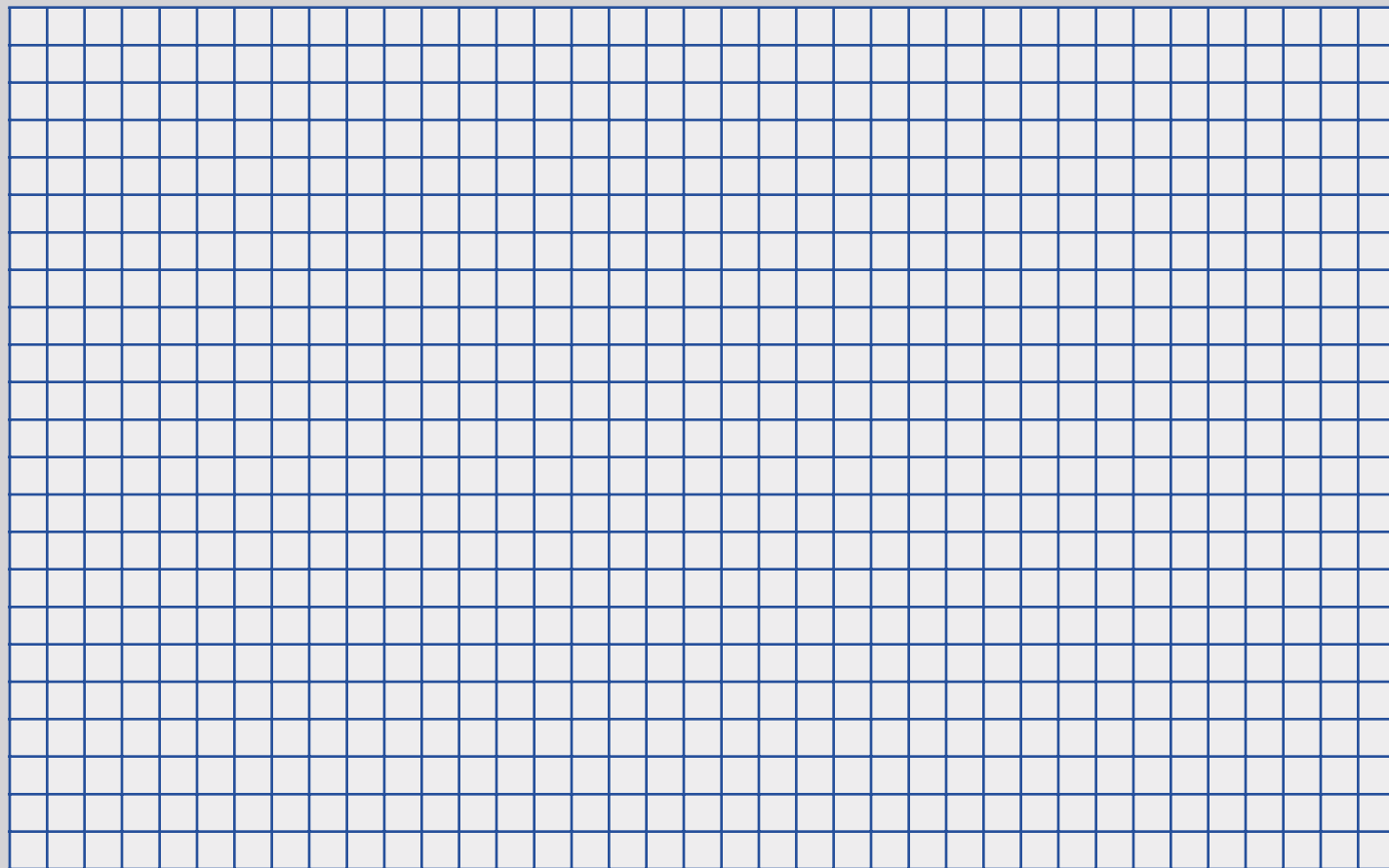
Type of Heating: _____

Crop Information

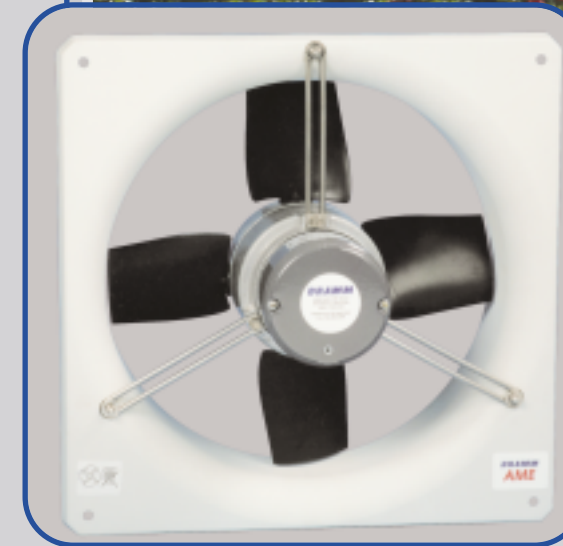
Crops Grown: _____
Any Hanging Baskets: _____
How Many Runs/Bay: _____
Single or Double Hung: _____

Dramm technical staff and authorized dealers are available for consultation and implementation of the AME system.

PLEASE PROVIDE A SKETCH BELOW:



DRAMM



DRAMM

2000 North 18th Street • PO Box 1960 • Manitowoc, WI 54221-1960 USA
dramm.com

920.684.0227 • Order Fax: 920.684.4499 • Parts & Service Fax: 920.684.0193 • 800-258-0848
information@dramm.com

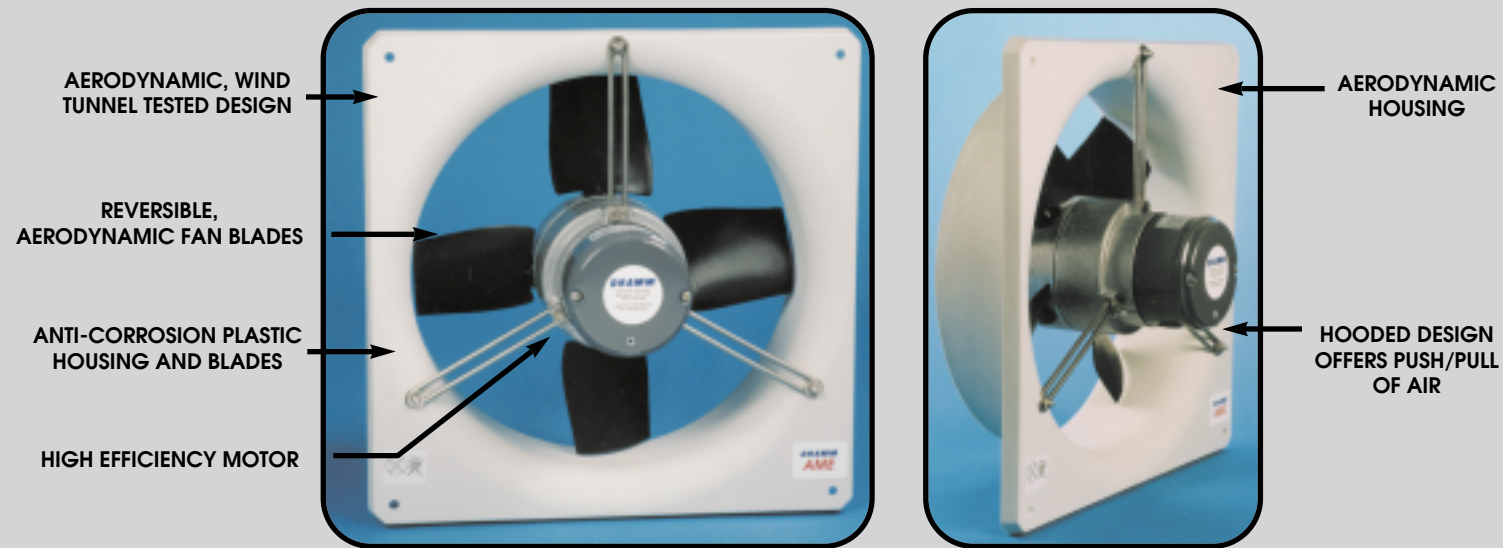
AME Air Circulation System

DRAMM AME Air Circulation System

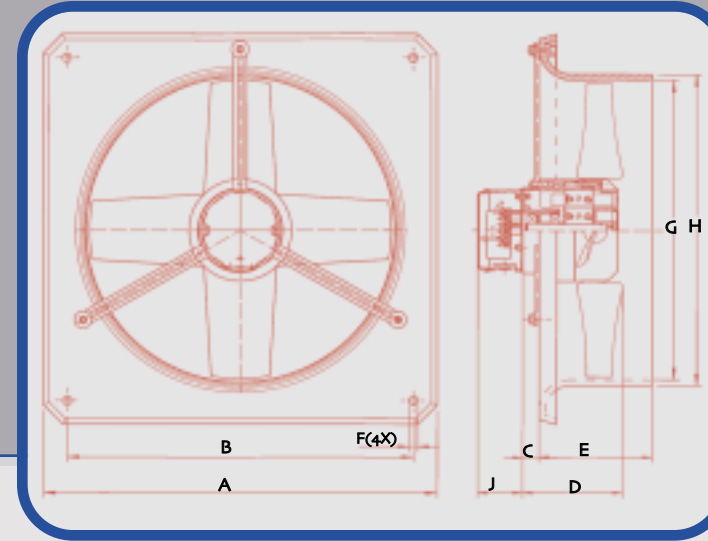
Dramm AME HAF fans represent a different theory in air movement. The AME fan offers efficiency, flexibility and simplicity. Utilizing an aerodynamic design and a high-efficiency motor, the AME fan is equipped to maximize the air flow potential of any situation. When combined with speed controllers, the AME fans offer unmatched flexibility in air flow as plants grow and mature. Because of their shrouded, aerodynamic design and high-efficiency motor, AME fans cover greater distances with better, more even air speeds. This results in fewer fans needed with an increase in efficacy and reduction in electrical costs.

- INCREASED EFFICIENCY
- SPEED REGULATION FOR FLEXIBILITY
- REDUCED NUMBER OF FANS
- LOW MAINTENANCE
- ANTI-CORROSION DESIGN
- THERMAL OVERLOAD PROTECTION

The AME Fan system evens air flow by combining our high efficiency motor and a specialized aerodynamic design. While typical basket fans stir up the air inefficiently, the AME fan provides leverage for air movement. The result is not only increased forward propulsion but a pull from behind the fan as well. This helps to even air speeds by creating momentum throughout the house.



DRAMM AME Air Circulation System



Dimensions (metric)									
	A	B	C	D	E	F	G	H	J
WIF 300/4	395	350	30	140	126	9.5	300	314	68
WIF 350/4	445	400	30	140	126	9.5	350	364	68
WIF 400/4	495	444	30	140	126	9.5	400	414	68
WIF 450/4	575	505	30	150	136	13	450	464	68
WIF 500/4	635	565	30	150	136	13	500	514	68

Dimensions (US)									
	A	B	C	D	E	F	G	H	J
WIF 300/4	15.8	14	1.2	5.6	5.04	.38	12	12.56	2.72
WIF 350/4	17.8	16	1.2	5.6	5.04	.38	14	14.56	2.72
WIF 400/4	19.8	17.76	1.2	5.6	5.04	.38	16	16.56	2.72
WIF 450/4	23	20.2	1.2	6.0	5.44	.52	18	18.56	2.72
WIF 500/4	25.4	22.6	1.2	6.0	5.44	.52	20	20.56	2.72

Results at No Static Pressure

Metric/ US	RPM	Watt	Watt/ 1000m3	dB(A)	Inom	I _{max} *
WIF 300/4	1500	121	56.5	46	0.53	0.6
WIF 350/4	1450	190	58	47	0.82	0.9
WIF 400/4	1575	330	62	50	1.15	1.8
WIF 450/4	1650	295	47.5	52	1.3	1.7
WIF 500/4	1600	440	54.8	54	2.3	3.0

* - I_{max} is the maximum current by 3-wire electronic regulation. This value is needed for the capacity calculation of an electronic controller.

Air Volumes at Varying Static Pressures

Cubic Meters/Hour				
0Pa	30Pa	50Pa	80Pa	100Pa
2140	1930	1760		
3275	2960	2675		
5310	4880	4560	4010	3525
6215	5665	5260	4730	4040
8020	7450	7030	6240	5670

Cubic Feet/Minute

0 In. WG	0.1 In. WG	0.2 In. WG	0.3 In. WG	0.4 In. WG
1260	1160	1020		
1930	1740	1530	1230	
3130	2940	2660	2370	1630
3660	3410	3190	2960	2660
4720	4500	4210	3900	3590

System Approach

The AME HAF fans work best when used in conjunction with AME speed regulators. By varying the speed of the fans, increased flexibility results. For young plants slower overall air speeds are desired. As plants mature, the increase in foliar mass reduces airflow requiring higher fan output to maintain ideal air speeds. Variable speed is also useful in preventing condensation and disease, in changing greenhouse temperatures rapidly and in chemical application.

GUARDS: Dramm AME fans do not use fan guards— fan guards limit the output of any fan. When fans are placed high enough, no guard is necessary. If fans are to be placed within reaching distance, guards may be added.

