MagFan ONe Sets new standards



+45 75771922 | mail@dacs.dk | www.dacs.dk



MagFan ONe is our "conventional" ON/OFF wall fan. The MagFan ONe sets new standards in terms of efficiency, capacity and pressure performance. It will simply revolutionize the market for ON/OFF controlled wall fans. The MagFan ONe is in every aspect identical to the existing MagFan, except it is an on/off fan. It is still a direct drive fan, so no belts and pulleys – hence no maintenance.

MagFan ONe - Best in Test at Bess Lab

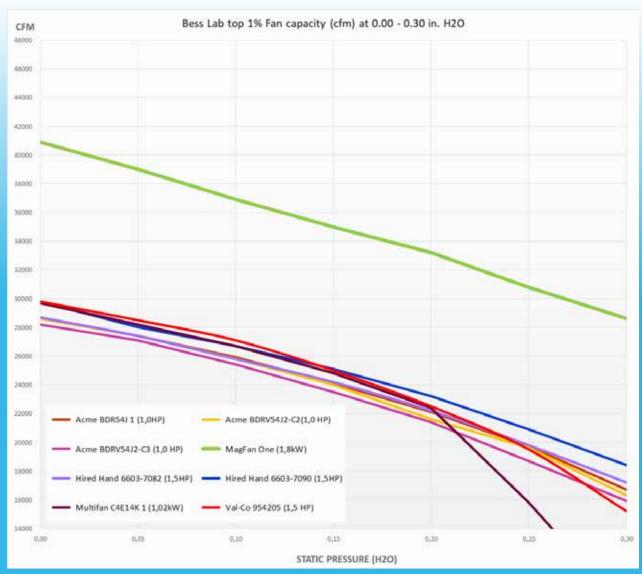
Each year, Bess Lab, Illinois, and University of Georgia define the top 1% of all fans tested by two key parameters:

- 1. Energy Efficiency Rating should be 22 CFM/Watt or higher
- 2. Air Flow Ratio (AFR) should be 0.79 or higher



With 22.4 cfm/Watt MagFan ONe has one of the highest Energy Efficiency Ratings of all fans tested at Bess Lab and therefore it becomes a member of the top 1% fans. With an Air Flow Ratio of 0.85 MagFan ONE has the best Air Flow Ratio of all the top 1% fans and it significantly outperforms the top 1% fans when it comes to capacity. The results are impressive. At 0.1'' WC Magfan ONe delivers 36900 CFM which is a good 30% more than the best of the rest. In other words, it outperforms all other top 1% fans by a wide margin.







University of Illinois Department of Agricultural and Biological Engineering Bioenvironmental and Structural Systems Lab Final Report

Project Number: 18465

Test Date: September 11, 2018

Fan: Motor: Shutter: Roller door Make-DACS Make-DACS Material-Plastic MagFan One Model-Y2G112M2-8 Model-# Doors-Blade dia.- 56.3" (1430) Нр-1.8 kW # Columns- 1 Orifice dia.- 56.8" (1442) RPM-700 Door length 1800 mm Volts-230 / 400 Locationintake

 Blade:
 Amps 8.5 / 4.9

 Number 3
 Hz 50
 Guards:

 Shape propeller
 Phase 3
 Description

Shape- propeller Phase- 3 Description- wire

Material- poly S. F.- '- Spacing- 1.6" x 2.9" / 5.4" concentric

Pitch- - Clearance- 0.4" (10 mm) Housing:

Material- poly Discharge Cone:

 Drive Sheaves:
 Intake area- 61.5" x 61.5" (1562x1 Depth- 47"

 Drive dia. direct
 Discharge- 56.8" (1442)
 Minor dia.- 56.8"

 Axle dia. drive
 Depth- 12" (305)
 Major dia.- 68.5"

Notes: Roll door housing with bell mouth intake frame

715

715

Test Conditions:

0.35

0.40

25900

22200

T(wb) F: 66.5 Barometric pressure, recorded 29.47

399.1

399.0

T(db) F: 79 Barometric Pressure, corrected 29.34 (In. Hg)

I (UD) F.	19	Daronnellic Flessure, confected				29.34 (III. Hy)					
						ib 50%	SI Units				
Static							Static				
Pressure	Airflow						Pressure	Airflow			
(in.H2O)	(cfm)	rpm	Volts	Amps	Watts	cfm/Watt	(Pa)	(m^3/hr.)	(m^3/hr)/W	W/1000m^3/hr	
0.00	40900	729	399.1	3.76	1428	28.7	0	69500	48.7	21	•
0.05	39000	728	399.1	3.86	1537	25.4	12	66300	43.1	23	
0.10	36900	724	399.1	3.98	1650	22.4	25	62700	38	26	
0.15	35000	722	399.1	4.08	1750	20.0	37	59500	34	29	
0.20	33200	720	399.1	4.18	1837	18.1	50	56400	30.7	33	
0.25	30800	718	399.1	4.28	1925	16.0	62	52300	27.2	37	
0.30	28600	716	300 1	1 35	100/	143	75	48500	2/3	//1	

12.8

10.9

2030

2033

4.40

4.40

Location-

intake / exhaust



46

21.7

18.5

44000

37700

87

100