

MagFan ONE - sets new standards



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.

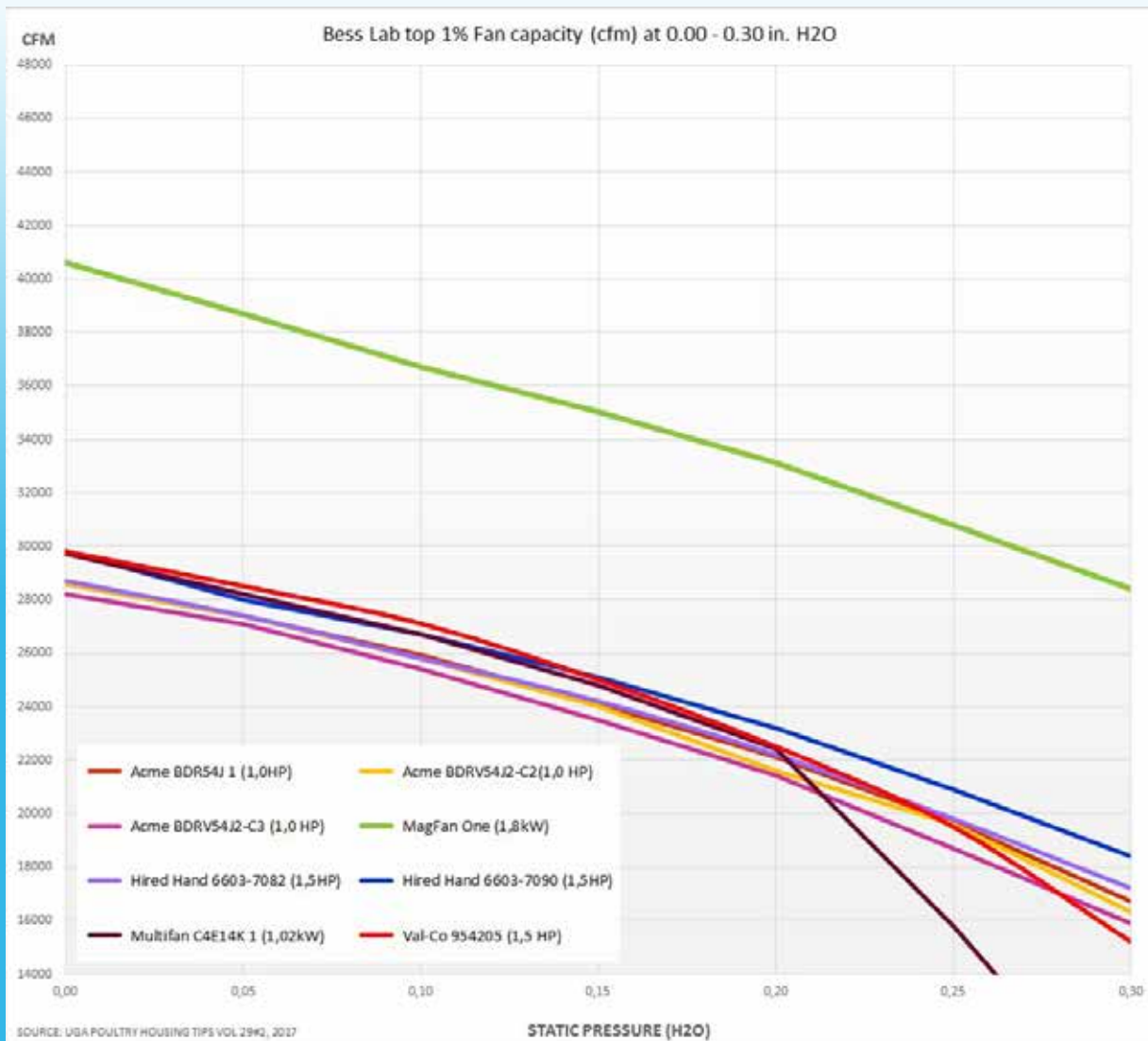
MagFan ONE - Best in Test at Bess Lab

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

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

MagFan ONE stands out

With 22.2 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 0.86 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 36700 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.





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MagFan ONE in short:

- Built to last, maintenance-free
- Capacity up to 68.900 m³/h (40600 cfm)
- Pressure capability up to 100 Pascal
- Asynchronous 3-phase motor: 1,8kW, 720 rpm, 50Hz
- Saves 75% on transportation costs

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

Project Number: 18401
Test Date: August 6, 2018

Fan:	Motor:	Shutter:
Make- DACS	Make- DACS	Roller door
Model- MagFan One	Model- Y2G112M2-8	Material- Plastic
Blade dia.- 56.3" (1430)	Hp- 1.8 kW	# Doors- 1
Orifice dia.- 56.8" (1442)	RPM- 700	# Columns- 1
	Volts- 230 / 400	Door length 1800 mm
	Amps- 8.5 / 4.9	Location- intake
	Hz- 50	
Blade:	Phase- 3	Guards:
Number- 3	S. F.- '-	Description- wire
Shape- propeller		Spacing- 1.6" x 2.9" / 5.4" concentric
Material- poly		Location- intake / exhaust
Pitch- -		
Clearance- 0.4" (10 mm)	Housing:	Discharge Cone:
	Material- poly	Intake area- 61.5" x 61.5" (1562x1)
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

Test Conditions:

T(wb) F: 66 Barometric pressure, recorded 29.38
T(db) F: 77.5 Barometric Pressure, corrected 29.25 (In. Hg)

							SI Units			
Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	Static Pressure (Pa)	Airflow (m ³ /hr.)	(m ³ /hr)/W	W/1000m ³ /hr
0.00	40600	728	400.8	3.78	1427	28.4	0	68900	48.3	21
0.05	38700	726	400.8	3.88	1534	25.2	12	65800	42.9	23
0.10	36700	723	400.8	3.99	1651	22.2	25	62400	37.8	26
0.15	35000	721	400.8	4.09	1741	20.1	37	59500	34.2	29
0.20	33100	719	400.9	4.18	1830	18.1	50	56200	30.7	33
0.25	30800	717	400.9	4.27	1909	16.1	62	52400	27.4	36
0.30	28400	715	400.3	4.35	1980	14.4	75	48300	24.4	41
0.35	25800	714	400.4	4.40	2024	12.8	87	43900	21.7	46
0.40	21600	714	400.5	4.38	2015	10.7	100	36700	18.2	55

