

Performance test report - 3 Phase supply.

Test location: DACS A/S, Denmark

Tested By: Jens Dybdahl

Project Number: PTR3-M+30/750/260617-F	Orifice diameter: 1440 mm	Motor make: DACS OEM	Shutter type: Butterfly damper
Fan Make: DACS A/S	Discharge diameter: 1793 mm	Motor model: 3002009HO	Shutter material: plastic
Fan Model: MagFan+	Cone depth: 1000 mm	Shaft power: 2.2 kW	# Doors: 2
Blade diameter: MagFan+	Overall depth: 1502 mm	RPM: Var. 160-750 RPM	# Columns: -
Blade number: 3	Install size WxH 1606x1606 mm	Voltage: 3x230VAC	Door length: -
Blade material: composite	Body material: plastic	Amps: 3x6.7 A @ 230V	Location: discharge
Blade pitch: 30 deg.	Guard, intake: stainless wire 70x40 mm rectang.	Duty class (S.F.): S1, Continuous duty	Test standard: ISO 5801
Tip clearance: 6 mm	Guard, discharge: stainless wire 140 mm concentric	Phase: 3	Report type: Final

Notes: DACS PM frequency drive model MagDrive 2000 three phase 360-440VAC 5A continuous duty
 230VAC butterfly damper lock (blow open)
 3 phase 400V 50Hz input to frequency drive

	Date (start)	time (start)	1.7 Chamber static p	80.8 Total Airflow	82.0 RPM	81.1 3-Phase V	81.3 3-Phase Amp	82.2 Total P	82.3 Specific consumption	
5 Pa	26-06-2017	12:12:49	-6,0 Pa	71092 m3/h	750	383 V	2,54 A	1496 W	21,0 Wh/1000m3	
10 Pa	26-06-2017	12:15:54	-10,5 Pa	70076 m3/h	750	383 V	2,62 A	1544 W	22,0 Wh/1000m3	
12,5 Pa_0.05"	26-06-2017	12:18:04	-12,8 Pa	69372 m3/h	750	383 V	2,67 A	1573 W	22,7 Wh/1000m3	
15 Pa	26-06-2017	12:20:19	-15,0 Pa	68915 m3/h	750	384 V	2,71 A	1601 W	23,2 Wh/1000m3	
20 Pa	26-06-2017	12:22:29	-20,0 Pa	67711 m3/h	750	384 V	2,80 A	1660 W	24,5 Wh/1000m3	
25 Pa_0.1"	26-06-2017	12:24:44	-25,3 Pa	66235 m3/h	750	386 V	2,88 A	1715 W	25,9 Wh/1000m3	
30 Pa	26-06-2017	12:26:59	-30,1 Pa	65030 m3/h	750	386 V	2,98 A	1773 W	27,3 Wh/1000m3	
35 Pa*	26-06-2017	12:54:46	-34,6 Pa	63485 m3/h	750	387 V	3,05 A	1823 W	28,7 Wh/1000m3	
37,5 Pa_0.15"	26-06-2017	12:57:06	-37,3 Pa	62862 m3/h	750	387 V	3,10 A	1853 W	29,5 Wh/1000m3	
40 Pa	26-06-2017	12:59:16	-39,9 Pa	62135 m3/h	750	387 V	3,15 A	1885 W	30,3 Wh/1000m3	
45 Pa	26-06-2017	13:01:26	-44,6 Pa	60800 m3/h	750	387 V	3,24 A	1937 W	31,9 Wh/1000m3	
50 Pa_0.2"	26-06-2017	13:04:31	-50,0 Pa	59509 m3/h	750	388 V	3,31 A	1986 W	33,4 Wh/1000m3	
55 Pa	26-06-2017	13:06:41	-54,6 Pa	58019 m3/h	750	387 V	3,40 A	2034 W	35,1 Wh/1000m3	
60 Pa	26-06-2017	13:08:46	-59,5 Pa	56568 m3/h	750	388 V	3,46 A	2075 W	36,7 Wh/1000m3	
62,5 Pa_0.25"	26-06-2017	13:10:56	-62,0 Pa	55932 m3/h	750	387 V	3,50 A	2099 W	37,5 Wh/1000m3	
65 Pa	26-06-2017	13:13:31	-64,8 Pa	55106 m3/h	750	388 V	3,53 A	2121 W	38,5 Wh/1000m3	
70 Pa	26-06-2017	13:16:56	-69,7 Pa	53358 m3/h	750	389 V	3,59 A	2162 W	40,5 Wh/1000m3	
75 Pa_0.3"	26-06-2017	13:19:06	-74,8 Pa	51897 m3/h	750	389 V	3,65 A	2195 W	42,3 Wh/1000m3	
80 Pa	26-06-2017	13:23:16	-80,4 Pa	50108 m3/h	750	390 V	3,71 A	2231 W	44,5 Wh/1000m3	
85 Pa	26-06-2017	13:25:31	-84,8 Pa	48613 m3/h	750	390 V	3,74 A	2256 W	46,4 Wh/1000m3	
87,5 Pa_0.35"	26-06-2017	13:27:36	-87,2 Pa	47522 m3/h	750	390 V	3,77 A	2269 W	47,7 Wh/1000m3	
90 Pa	26-06-2017	13:29:46	-90,2 Pa	46079 m3/h	750	390 V	3,79 A	2280 W	49,5 Wh/1000m3	
*) Samples per value: 20	Barometric pressure, start (mBar):		997,6	Chamber air density, start (kg/m3)		1,189				
*) Sampling interval: 5 seconds	Ambient temperature, start (°C)		20,3	Chamber temperature, start (°C)		20,8				
	Ambient RH, start (%)		59,2	Chamber RH, start (%)		58,0				

