AERODYNAMIC TEST

Object of inspection :

Fan Type :	R09R-3532A-6M-4219, 0309-4-0062
Motor specification :	1~230/240V 50/60Hz, 80W, 0,36A, 900RPM,C=2uF/450VL, IP54, TH.PORT, INS.CL.B,
Fan manufacturer :	RF
Aplication specification :	measured in short inlet with guard grill

Performed by :

Rotomatika Fans , Spodnja Kanomlja 23 , 5281 Spodnja Idrija - SLOVENIJA Performer : Ambrož Jug

Test rig, type of inlet nozzle, type of instalation :

Dps=1600Pa , Q=5m3/s , P=10kW Quadrant inlet nozzle: 0,300 Type of installation: A

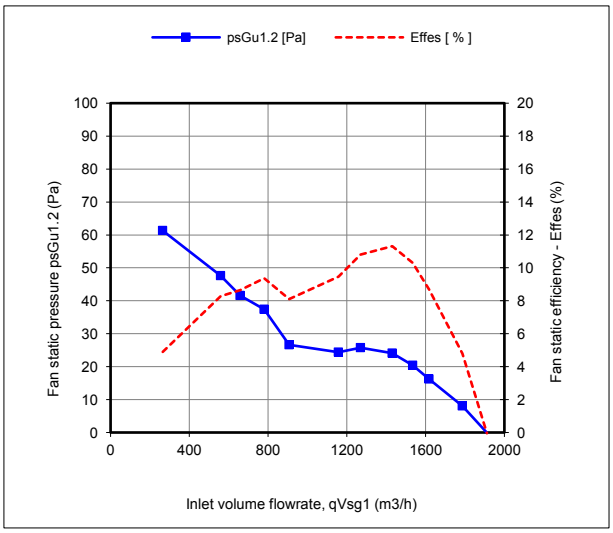
Reference source :

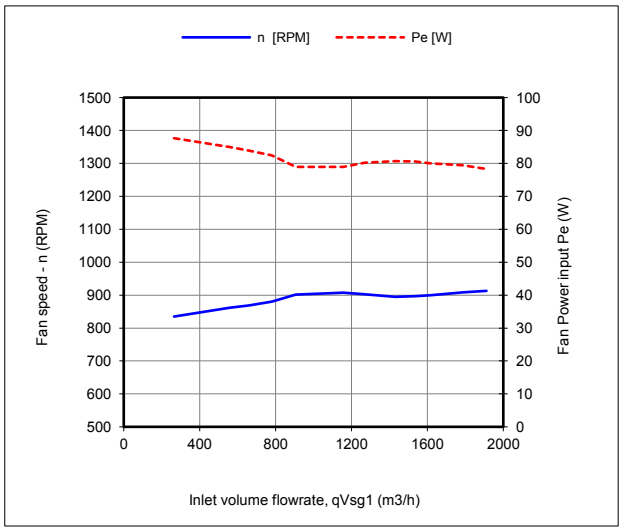
Test conditions :

Date of testing :	23.11.2007	
Testing Voltage / Frequency :	230V/50Hz	
Testing Capacitor / Connection :	2uF	
Direction of rotation :	CW from cable side	
According to standards :	ISO 5801 - 1997	
Ambient temperature :	25	°C
Ambient humidity :	0,38	/
Barometric pressure :	98300	Pa
Ambient air density :	1,14346	kg/m³

Aerodynamic test :

q_{Vsg1}	$p_{sGu1.2}$	$p_{FGu1.2}$	p_5	p_3	n	Eff_{es}	U	f	I_{sum}	P_e	time
[m³/h]	[Pa]	[Pa]	[Pa]	[Pa]	[RPM]	[%]	[V]	[Hz]	[A]	[W]	[hh:mm]
265	61,3	61,6	0,7	58,4	835	4,90	230,22	49,993	0,398	87,7	15:31:12
559	47,6	49,2	2,9	45,4	862	8,28	230,53	49,998	0,388	85,0	15:25:37
659	41,6	43,8	4,0	39,7	869	8,65	230,52	49,994	0,384	83,9	15:20:26
780	37,4	40,4	5,6	35,6	880	9,36	230,6	50,001	0,380	82,4	15:16:33
907	26,6	30,7	7,5	25,4	902	8,10	229,48	49,981	0,370	78,9	15:12:28
1158	24,4	31,1	12,2	23,2	907	9,47	230,49	50,006	0,370	79,0	15:07:48
1270	25,8	33,8	14,6	24,6	903	10,80	231,1	49,992	0,374	80,2	15:02:48
1431	24,1	34,3	18,6	23,0	895	11,32	230,41	50,022	0,375	80,7	14:56:00
1534	20,4	32,2	21,3	19,5	897	10,29	230,69	49,999	0,376	80,6	14:50:30
1617	16,2	29,3	23,7	15,5	900	8,68	230,74	50,002	0,375	80,0	14:46:13
1787	8,1	24,0	28,9	7,7	908	4,80	230,86	49,998	0,374	79,4	14:42:10
1911	-0,1	18,2	33,0	-0,1	913	-0,05	230,44	50,01	0,373	78,3	14:37:16





Remarks :

Merjen v ustju 0300-6-7078.