HDO/HD1S Axial Fan

Protection mode:

Type of protection:
Class of temperature:
Protection degree: IP55
Ambient Temp. : -20°/ +40°C
Zones : 1-21-2-22

Description:

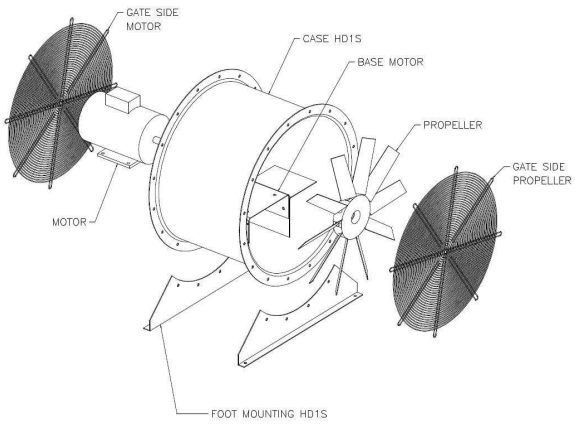
These axial fans are designed for the extraction or insufflation gas, clean air or little dusty. These can be mounted on short body (HDO) or long body (HD1S), and be connected to a network of ducts, or attached to a wall for a direct operation.
For a construction > Ø1250 please consult us.

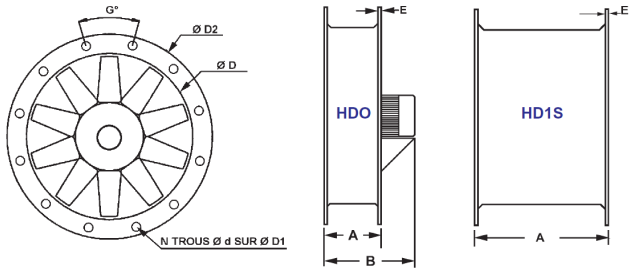
Technicals data:

PROPELLER
Composite material. From Ø800 (1500tr/min) cast aluminum.
Antistatic composite material or aluminium alloy (category 2 and category 3). (ATEX)
Sense of air to be specified when ordering.
MOTOR
Class F, IP55, 50Hz, 230/400V three phase. B3 - 400/690V three phase motor above 5.5kW.
CE EX II2 G T* (IIB) or CE EX II2 G T* (IIC), Area 1 and 2 (ATEX)
CE EX II2 D T* Area 21 or CE EX II3 D T* Area 22. (ATEX) * according to plate motor.

GRID
Painted steel or galvanized at inlet and outlet. (ATEX)
CASING
Painted steel or galvanized.
OPTIONS
Manufacturing in stainless steel - Hardware in stainless steel - Hot dip galvanizing.
Special voltage and frequency.
Protection with two epoxy components for corrosive or humid atmosphere. Different class of gases and temperature. (ATEX) Trapdoor for HD1S.
Flow, pressure : see curves of propeller kit.
ACCESSORIES
Grid - Shutters - Motor circuit breaker - Feets - Vibration plots - Counter flanges - Plat pitting -

Technicals drawings:





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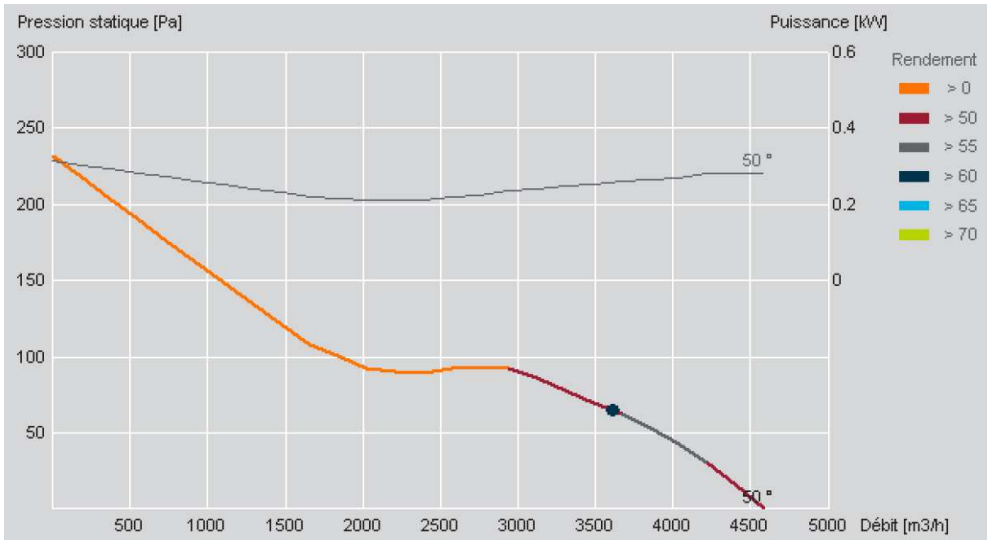
Dimensions table:

Ø	D (int-vir)	A HDO	A HD1S	D1	N	d	G(°)	D2	E	B
250	250	200	300	290	6	10	60	320	2	294
315	315	200	350	355	8	10	45	385	2	294
355	355	200	350	395	8	10	45	425	2	294
400	400	250	360	440	8	12	45	475	2,5	343
450	450	250	400	495	8	12	45	530	2,5	363
500	500	250	400	545	12	12	30	580	2,5	363
560	560	250	450	610	12	12	30	650	3	405
630	630	300	480	690	12	12	30	740	3	466
710	710	300	500	770	16	12	22,5	820	3	484
800	800	300	600	860	16	12	22,5	910	3	542
900	900	350	650	960	16	15	22,5	1010	3	585
1000	1000	350	850	1070	16	15	22,5	1130	3	704
1250	1250	400	1000	1320	20	15	18	1390	4	857

Ø	kW	tr/min	Kg HDO/HD1S standard	Kg HDO/HD1S II2G IIB	Kg HDO/HD1S II2G IIC	Kg HDO/HD1S II2GD IIB	Kg HDO/HD1S II2GD IIC	Kg HDO/HD1S II2D	Kg HDO/HD1S II3D
250-4	0,18	1500	12/14	14/16	15/18	14/16	15/18	15/17	16/19
315-4	0,18	1500	13/16	15/18	16/20	15/18	16/20	16/19	17/21
355-4	0,18	1500	15/17	16/19	17/21	16/19	17/21	17/20	18/22
400-6	0,12	1000	21/25	22/28	23/30	22/28	23/30	23/29	24/31
400-4	0,25	1500	22/26	23/29	24/31	23/29	24/31	24/30	25/32
450-6	0,12	1000	24/29	25/31	26/33	25/31	26/33	26/32	27/34
450-4	0,37	1500	25/30	26/33	27/35	26/33	27/35	27/34	28/35
500-6	0,37	1000	26/33	27/35	28/37	27/35	28/37	28/35	29/38
500-4	1,1	1500	29/36	31/39	32/41	31/39	32/41	32/39	33/42
560-6	0,55	1000	37/46	39/57	40/61	39/57	40/61	40/58	41/62
560-4	1,5	1500	47/56	57/66	58/69	57/66	58/69	58/67	59/70
630-6	0,75	1000	48/57	55/78	59/81	55/78	59/81	56/78	60/82
630-4	2,2	1500	57/66	67/82	71/84	67/82	71/84	68/83	72/84
710-6	1,1	1000	72/75	80/93	81/95	80/93	81/95	81/94	92/96
710-4	4	1500	75/88	89/102	90/106	89/102	90/106	90/103	91/107
800-6	1,5	1000	84/91	92/110	93/112	92/110	93/112	93/111	94/113
800-4	5,5	1500	94/112	106/124	107/126	106/124	107/126	107/125	108/127
900-6	2,2	1000	91/112	116/137	117/139	116/137	117/139	117/138	118/140
900-4	7,5	1500	114/135	128/149	129/161	128/149	129/161	129/150	130/162
1000-8	3	750	144/182	195/233	196/235	195/233	196/235	196/234	197/235
1000-6	7,5	1000	170/208	236/245	238/248	236/245	238/248	237/246	238/348
1000-4	11	1500	179/217	255/262	258/264	255/262	258/264	256/263	257/264
1000-4	18,5	1500	243/281	269/307	270/318	269/307	270/318	270/308	271/309
1250-8	5,5	750	232/308	275/362	276/374	275/362	276/374	276/363	277/364
1250-6	11	1000	255/331	283/371	285/386	283/371	285/386	284/372	285/373
1250-4	18,5	1500	259/378	305/388	309/404	305/388	309/404	306/389	307/390
1250-4	30	1500	357/433	392/468	399/495	392/468	399/495	393/469	394/470

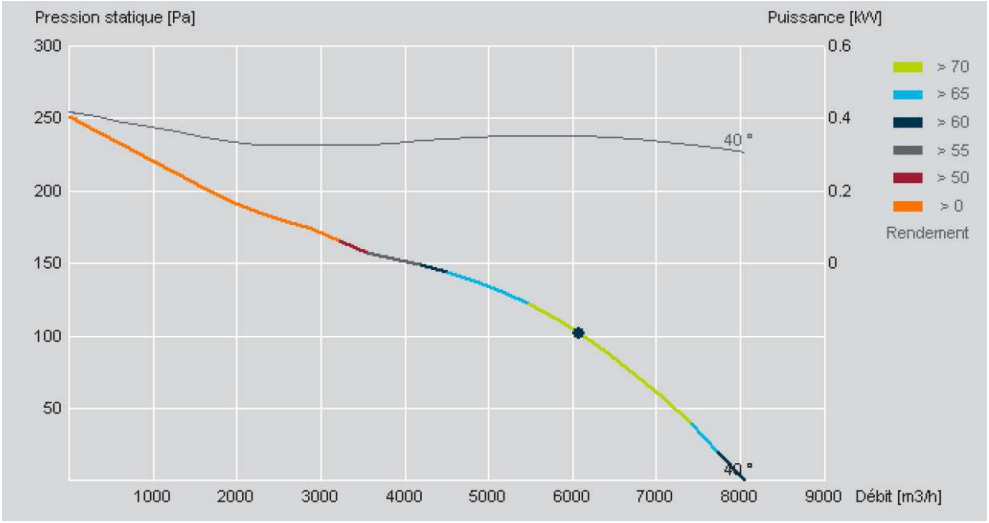
HDO/HD1S Axial Fan

355/8-8/50ºPAGAS/1HL



Propeller Informations				
Diameter	340 mm		Speed rotary	1450 RPM
Number of pales	8			0,50%
Angle	50°		Temperature	15℃
Pale material	PPG		Altitude	0m
Type of pale	1H		Density	1,225 kg/m3
Rotation	L		End	
Peripheral speed	26 m/s		Moment of iniertia	0,00584 kgm2
Air speed	11 m/s		Centrifugal force of pale	125N
Torque	1,69Nm		Axial Power	12,7N
Output	3610 m3/h		Total presure	140Pa
Static presure	65Pa		Power	0,257kW
Dynamic presure	74,7 Pa		Yield	54%
Sound presure	Propagation: 1/2 spherical		Sound presure 63,5 SPL dB(A)	Distance/unity [m)]

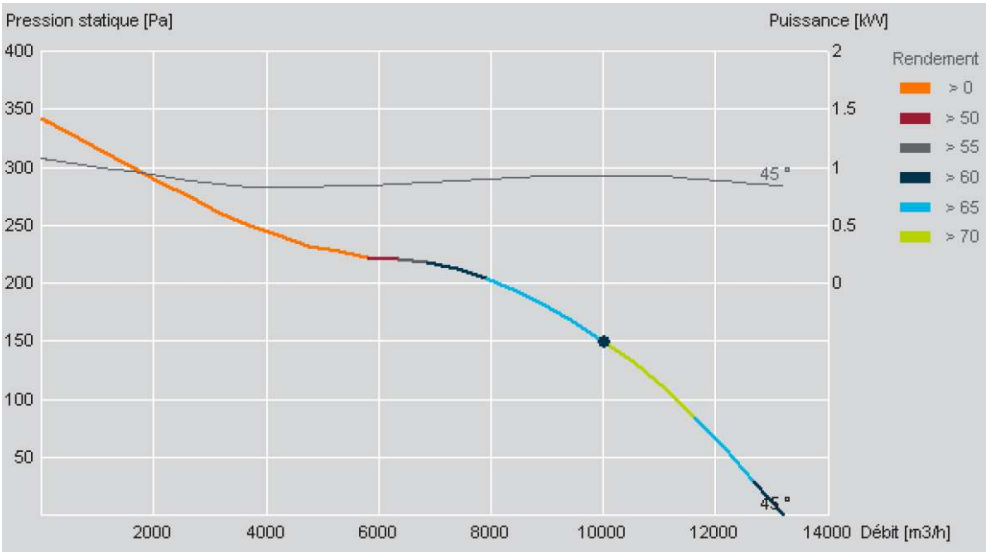
500/6-6/40ºPAGAS/3HL



HDO/HD1S Axial Fan

Propeller Informations				
Diameter	490 mm		Speed rotary	1450RPM
Number of pales	6			0,50%
Angle	40°		Temperature	15℃
Pale material	PPG		Altitude	0 m
Type of pale	3H		Density	1,225kg/m3
Rotation	L			
Peripheral speed	37 m/s		Moment of iniertia	0,0102kgm2
Air speed	8,94m/s		Centrifugal force of pale	248N
Torque	2,31Nm		Axial Power	28,5N
Output	6070m3/h		Total presure	151Pa
Static presure	102Pa		Power	0,351 kW
Dynamic presure	49,1Pa		Yield	73%
Sound presure	Propagation: 1/2 spherical		Sound presure 63,5 SPL dB(A)	Distance / unity [m]

560/8-8/45ºPAGAS/3HL



Propeller Informations				
Diameter	550mm		Speed rotary	1450RPM
Number of pales	8			0,50%
Angle	45°		Temperature	15℃
Pale material	PPG		Altitude	0m
Type of pale	3H		Density	1,225kg/m3
Rotation	L		End	
Peripheral speed	42m/s		Moment of iniertia	0,0193 kgm2
Air speed	11,7m/s		Centrifugal force of pale	304N
Torque	6,14Nm		Axial Power	55,7N
Output	10000m3/h		Total presure	234Pa
Static presure	150Pa		Power	0,932kW
Dynamic presure	84,1Pa		Yield	70%
Sound presure	Propagation: 1/2 spherical		Sound presure 69,5 SPL dB(A)	Distance / unity [m]