

TECHNICAL DATA SHEET

RADIAL FAN nr. AFGG-40_04



G&G filtration CZ, s.r.o.

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ITEM1

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Type and characteristics of the requested machine				performance on		Outlet		
Flow rate	1400 [m3/h]	Capacity (Normal)				1304 [Nm3/h]		
Total pressure	4000 [Pa]	Static pressure						
Working fluid temperature	20 [°C]	Fluid specific weight				1.204 [Kg/m3]		
Installation altitude	0 asl [m]	Specific weight std (20 [°C], 0 asl [m])				1.204 [Kg/m3]		
Suggested model and effective characteristics				performance on		Outlet		
Model	VGN 450/2-I	Execution	E04	Installation Type	A (free inlet and outlet)			
Fluid specific weight	1.204	1.204 [Kg/m3]		Revolution fan speed		2920 [rpm]		
Total pressure	3881	3881 [Pa]		Orientation		RD 0		
Static pressure	3493	3493 [Pa]		Sound power LwA		96.36 [dB(A)]		
Flow rate	1400	1400 [m3/h]		Sound pressure at mt.1.5 1/2 sf in open field		83.06 [dB(A)]		
Capacity (Normal)	1304	1304 [Nm3/h]		Pipings	s>3mm = +3dB; 1mm<s<3mm = +4,5dB ; s<1mm = +6dB			
Power dem. at shaft	1.993	1.993 [kW]		Fan efficiency	Outlet	75.71	%	
Motor power demand	1.993	1.993 [kW]						
Characteristics of chosen motor				Motor efficiency IEC 60034-30			PD ² impeller	
Code	090L02-50/std3	shape	B3	Efficiency	85.9	86.8	86.1	1.3 kgm ²
Rated power	2.2 [kW]	n° poles	2	rpm	2910			PD ² needed 1.31 kgm ²
				Load	100%	75%	50%	PD ² motor 2 kgm ²
ErP 2009/125/CE Regulament (UE) N. 327/2011				Notes				
Efficiency grade	64			N	75.8	Total efficiency	69.66	%
Impeller type	backward blades	Type of test	B/total	Flow rate	1756.42 [m3/h]	Pressure	3069 [Pa]	
NOTE	Performance on Outlet VGN 450/2-I - E04 - D=0.45[m] - ρ=1.204[kg/m³] - T=20[°C] - 0[m]a.s.l.							
Rpm Limit	<=60 °C: 5000 Rpm							
values of the noise of fan obtained in ambient not reverberant with inlet and outlet ducts fully insulated								

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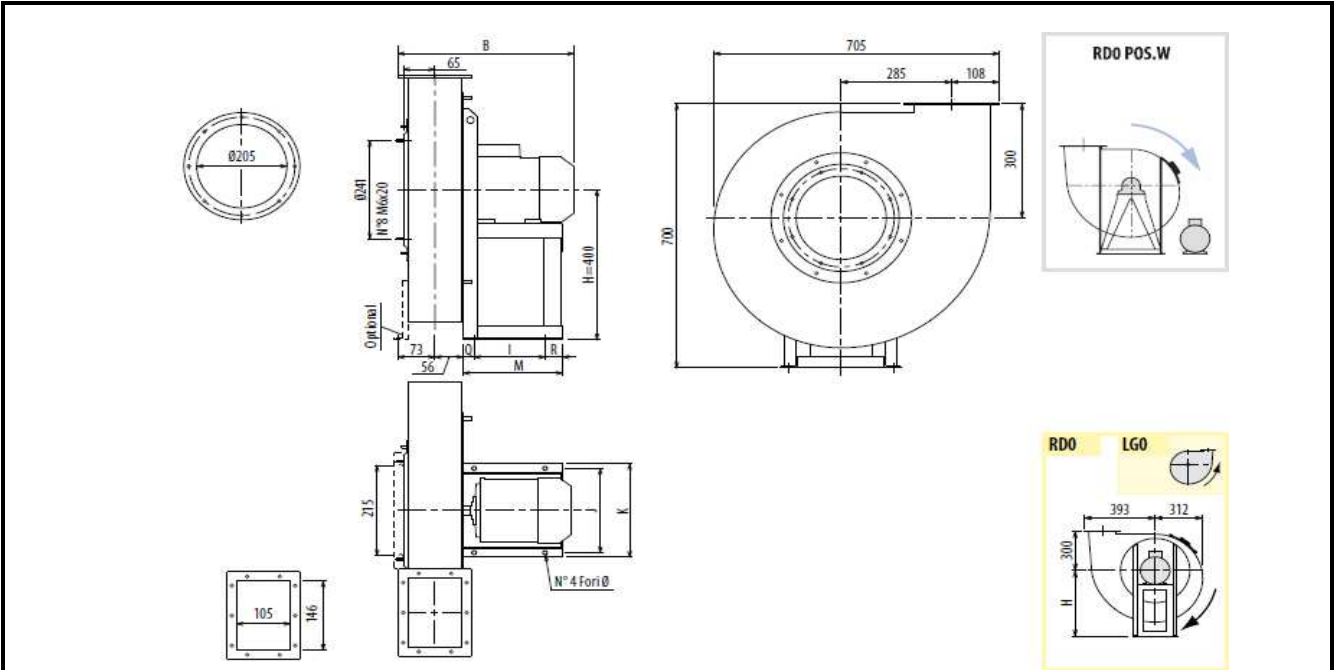
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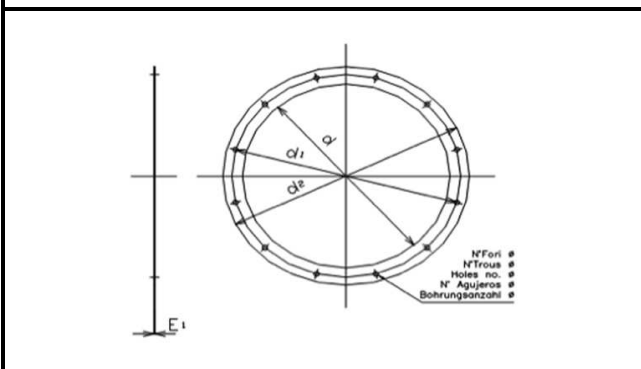
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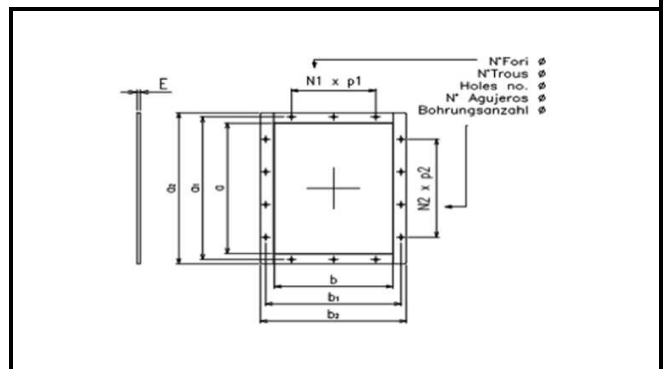
Indicative measures in the standard configuration. For detailed information contact your reference.

Indicative value of weight including standard motor.

B	I	H	H1	H2	J	K	M	Q	R	Φ	PD2	kg
424	133	400	300	400	234	260	251	58	60	10	1,3	60



Cod	dxn°	d1	d2	Φ	E1
0205 A	205x8	241	275	8	3



Cod	axb	a1	b1	a2	b2
0146x0105	146x105	182	139	216	175

N2xp	n°	Φ	E
1x112	6	12	4