

# TECHNICAL DATA SHEET

## RADIAL FAN nr. AFGG-25\_21



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	30000 [m3/h]	Capacity (Normal)			27953 [Nm3/h]						
Total pressure	2500 [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	GF 900/4-I	Execution	E04	Installation Type	A (free inlet and outlet)						
Fluid specific weight	1.204	1.204 [Kg/m3]		Revolution fan speed		1470	[rpm]				
Total pressure	2566	2566 [Pa]		Orientation		RD 0					
Static pressure	2248	2248 [Pa]		Sound power LwA		102.78	[dB(A)]				
Flow rate	30000	30000 [m3/h]		Sound pressure at mt.1.5 1/2 sf in open field		89.48	[dB(A)]				
Capacity (Normal)	27953	27953 [Nm3/h]		Pipings	s>3mm = +3dB; 1mm<s<3mm = +4,5dB ; s<1mm = +6dB						
Power dem. at shaft	24.671	24.671 [kW]		Fan efficiency	Outlet	86.68	%				
Motor power demand	24.671	24.671 [kW]									
Characteristics of chosen motor				Motor efficiency IEC 60034-30			IE3				
Code	200L04-50/std3P	shape	B3	Efficiency	93.6	94	93.7	PD <sup>2</sup> impeller	37.0	kgm <sup>2</sup>	
Rated power	30.0 [kW]	n° poles	4	rpm	1470			PD <sup>2</sup> needed	37.0	kgm <sup>2</sup>	
				Load	100%	75%	50%	PD <sup>2</sup> motor	126	kgm <sup>2</sup>	
ErP 2009/125/CE Regulament (UE) N. 327/2011				Notes							
Efficiency grade	64			N	81.7			Total efficiency	82.61	%	
Impeller type	backward blades	Type of test	B/total	Flow rate	26685 [m3/h]			Pressure	2571 [Pa]		
<b>NOTE</b>				Performance on Outlet GF 900/4-I - E04 - D=0.9[m] - ρ=1.204[kg/m <sup>3</sup> ] - T=20[°C] - 0[m]a.s.l.							
Rpm Limit	<=60 °C: 2100 Rpm			H <sub>r</sub> , H <sub>st</sub> [Pa]				Na [kW]	η <sub>T</sub> [%]	[dB(A)]	
values of the noise of fan obtained in ambient not reverberant with inlet and outlet ducts fully insulated											

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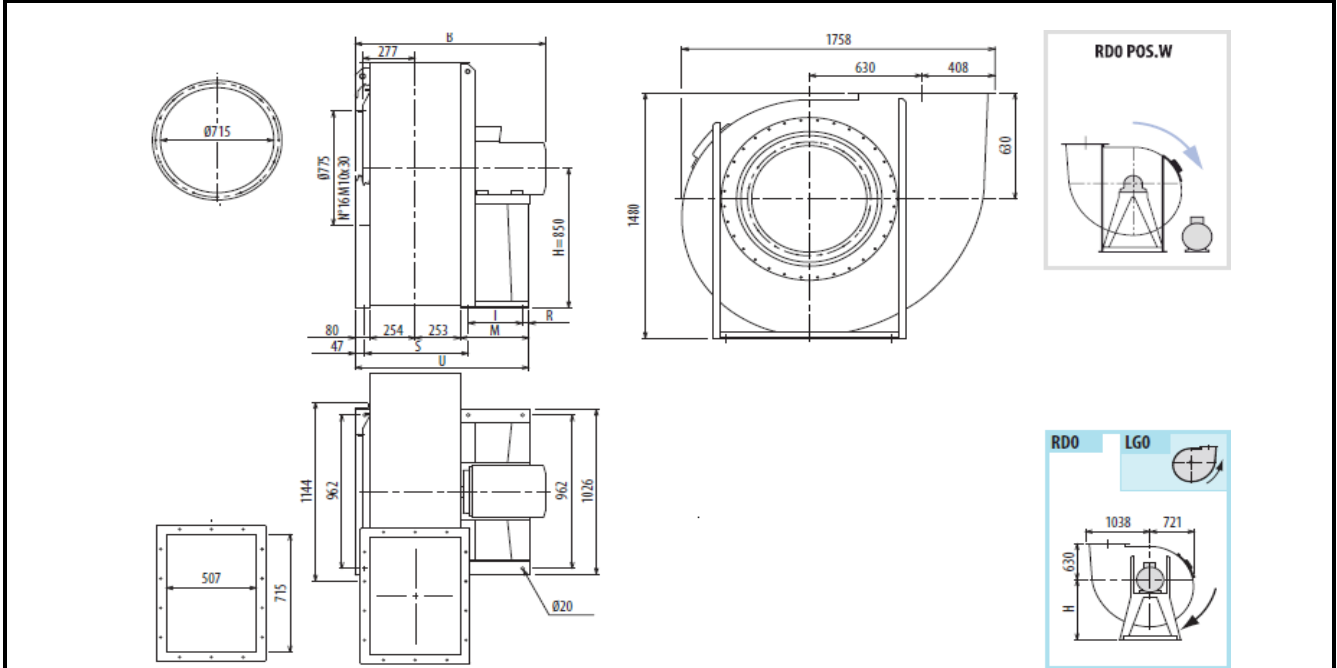
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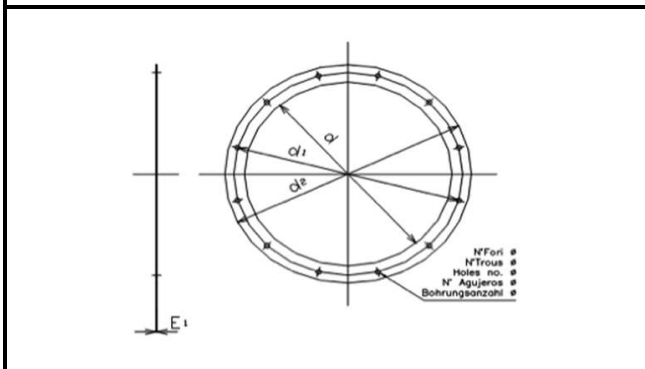
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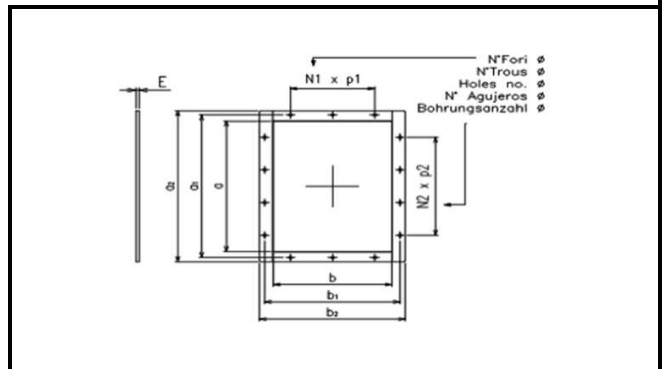
Indicative measures in the standard configuration. For detailed information contact your reference.

Indicative value of weight including standard motor.

B	I	H	H1	H2	M	R	S	U	PD2	kg
1254	401	850	630	1060	500	39	600	1087	37	687



Cod	dxn°	d1	d2	Φ	E1
0715 A	715x16	775	815	14	5



Cod	axb	a1	b1	a2	b2
0715x0507	715x507	775	567	815	607

N1xp	N2xp	n°	Φ	E
2x160	4x160	16	14	6