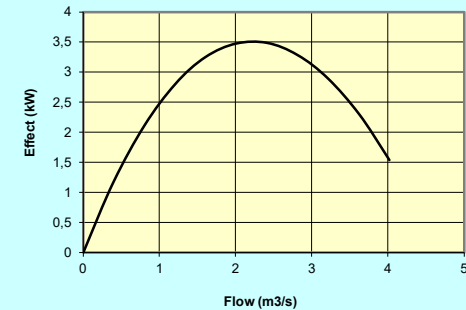


# FANnik an expertsystem for buliding fans by B.O Drugge

Inlet diameter	(mm)	450	0	Effect in DP	(kW)	3,46
Fan diameter	(mm)	900	1	Soundlevel	dB(A)	71,93
Maximal flow of gas	(m3/s)	4,02	2	Inlet blade angle	(deg)	36,18
Rotating speed	(rpm)	1467	3	Outlet blade angle	(deg)	20,08
Density of gas	(kg/m3)	1,2	4	Pressure DP	(Pa)	1635,01
Number of blades	(st)	6	5	Dyn Pressure DP	(Pa)	95,83
Stodola slip coeff		1	6	Flow DP	(m3/s)	2,00
Diameter of backshield	(mm)	966	7	Compress coeff		0,9943
Distance to the backshield	(mm)	130	8			
Distance to the diffusor	(mm)	30	9			
Glap between fan and fanhouse	(mm)	3	10			
Angle the snake will lean	(deg)	10	11			
Length of diffusor	(mm)	200	12			
SURFTAB1		120	13			
Thickness of the cone	(mm)	3	14			
Thickness of the ving	(mm)	3	15			
Thickness of the bottomplate	(mm)	3	16			
Number of slitz radii	(1-4)	2	17			
R11		275	18			
R12		300	19			
R21		340	20			
R22		420	21			
R31		0	22			
R32		0	23			
R41		0	24			
R42		0	25			

Effect diagram of spiralfan



Pressure diagram for Spiralfan

