

In Line fan type BIL

How to use the capacity & sound diagrams

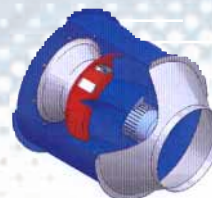
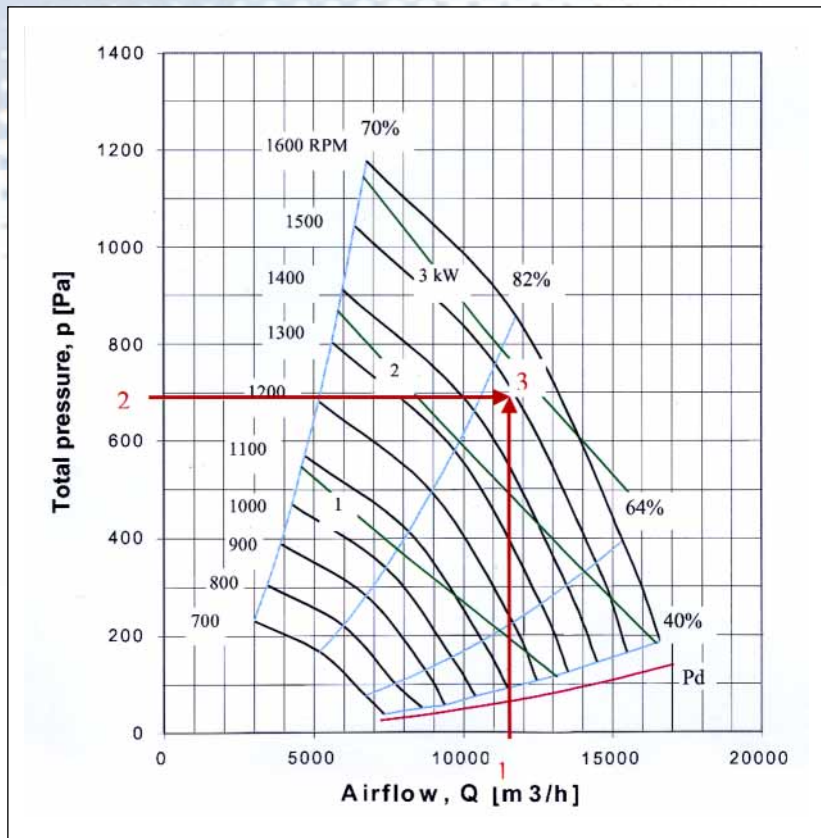


Diagram A



Procedure:

Capacity: Go to diagram A at the required capacity (1) and pressure (2). The intersection (3) gives the speed, power consumption and efficiency of the fan.

Sound: The rated sound power level in-duct, is given in diagram B at the current fan speed. Apply corrections from table C, at the different frequency bands. Table D gives sound pressure level (free field) in dBA, at current speed and distance from the fan when duct-mounted.

Diagram B

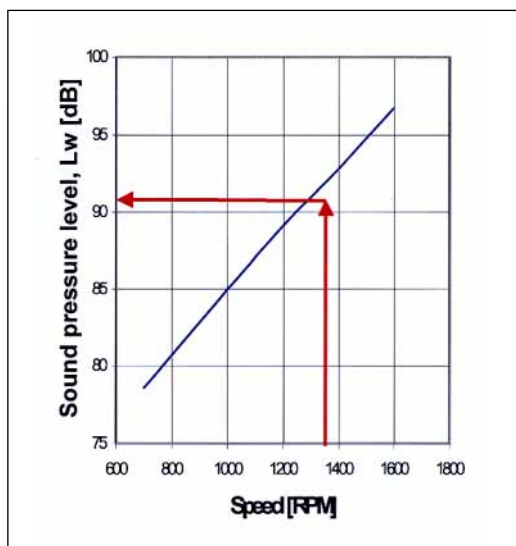


Table C

RPM	Octave band conversion							
	63	125	250	500	1000	2000	4000	8000
700	-4	-9	-16	-6	-16	-21	-11	-9
800	-3	-10	-15	-5	-15	-19	-11	-11
900	-3	-12	-15	-5	-14	-17	-11	-13
1000	-3	-13	-15	-5	-14	-16	-12	-15
1100	-3	-13	-14	-5	-13	-15	-13	-16
1200	-3	-14	-13	-5	-12	-15	-14	-18
1300	-3	-14	-12	-5	-12	-15	-15	-19
1400	-3	-14	-11	-6	-12	-15	-16	-21
1500	-3	-14	-10	-5	-12	-15	-17	-22
1600	-4	-14	-10	-4	-12	-16	-18	-24

Table D

RPM	Sound pressure free field, LpA (dB)		
	1m	3m	5m
1600	72	67	66
1400	68	63	61
1000	62	59	56
700	60	55	52

