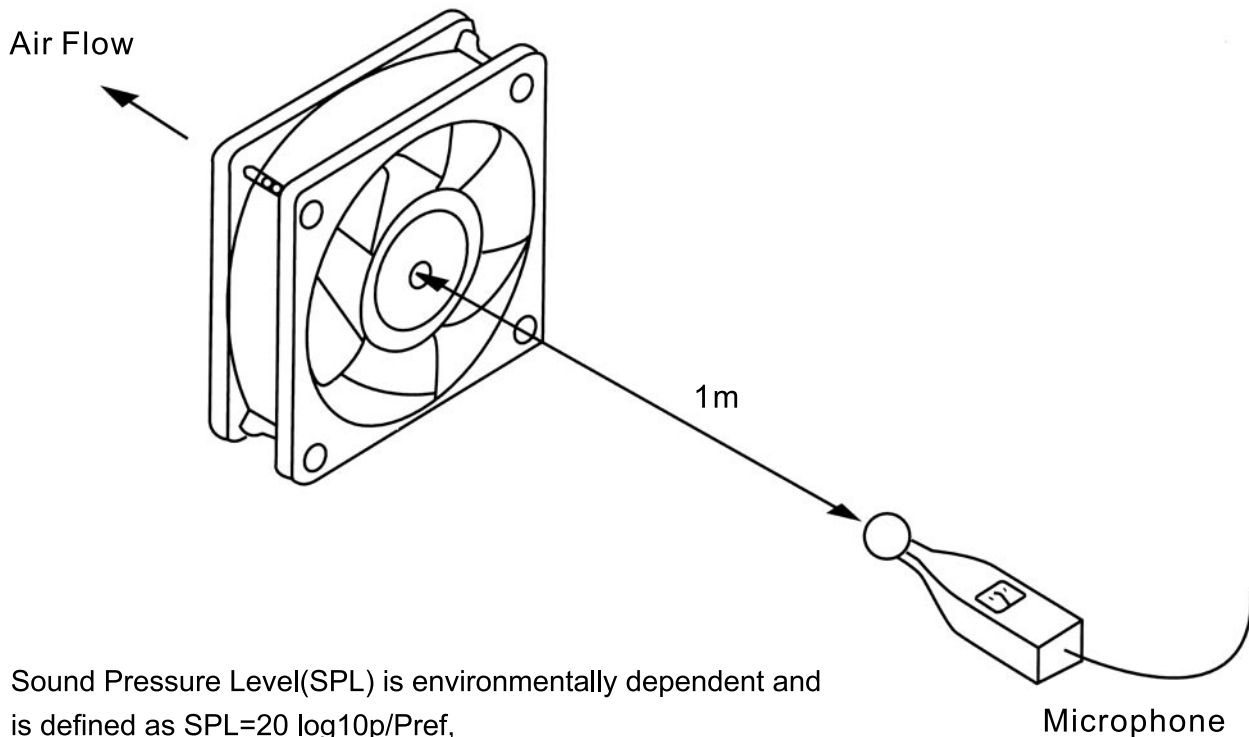


Noise Level Data

The Measurements of noise levels are made in accordance with CNS 8753 (which is very close to DIN 45635) ,which is being tested in a sound proof chamber with a sound level $L_p < 15\text{dBA}$. A elastic mounts supported microphone is placed 1 meter from the center line of the fan during the test. The fan is running without any resistance to airflow.



Sound Pressure Level(SPL) is environmentally dependent and is defined as $SPL = 20 \log_{10} p/P_{ref}$,

and Sound Power Level (PWL) is defined as $PWL = 10 \log_{10} W/W_{ref}$

P=Pressure

P_{ref} =A reference pressure

W=Acoustic power of the source

W_{ref} =An acoustic reference power

Fan noise data is usually plotted as Sound Pressure Level against the octave frequency bands.