

# AC

## A Study on the Noise Characteristics by Fan in AC Moter

\*# 1, 1, 1  
 \*#T. J. Cho<sup>1</sup> (vally7802@nate.com), J. W. Jung<sup>1</sup>, M. J. Choi<sup>1</sup>

Key words : Fan, AC Moter , Noise

1.

50cm

AC

AC

45°, 50°, 55°

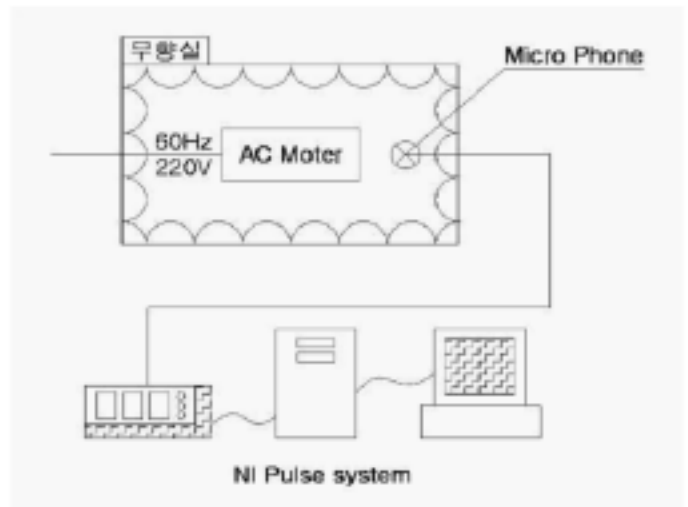


Fig. 1 Configurations of AC Moter and Fan

Table 1 Sorts and Characters of Fan

	(Axial flow fan)	(Centrifugal fan)		
		(Siroco fan)	(Crossflow fan)	(Turbo fan)
	<ul style="list-style-type: none"> <li>IH-JAR,</li> <li>MWO</li> </ul>	<ul style="list-style-type: none"> <li>MWO</li> </ul>		

2-2.

AC

AC

220V

60Hz

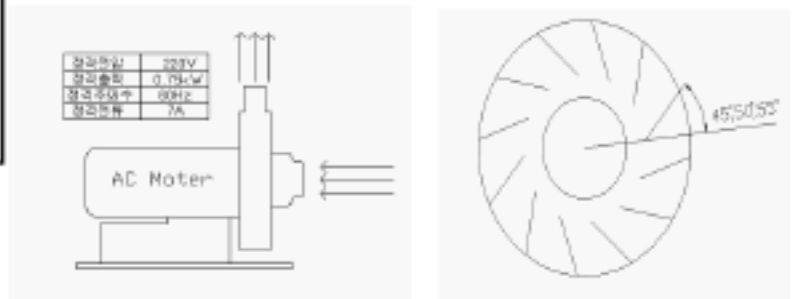


Fig. 1 Configurations of AC Moter and Fan

2-3.

)

2-1.  
AC

2. AC

60.3dB  
20dB

45°, 50°, 55°  
 45° 85.8dB  
 50° 87.4dB, 55° 89.8dB  
 AC

3. , " , " , / 11 1 , 2001
3. , "Reverberation" , pp275-285,1996
4. Gad-el-Hak, M., 1996, "Modern Developments in Flow Control," Applied Mech. Rev. Vol. 49, p.365
5. , , , , 1995, " (II), p. 521.
6. , , , 1996, " 20 3
7. , , 1995, " , "

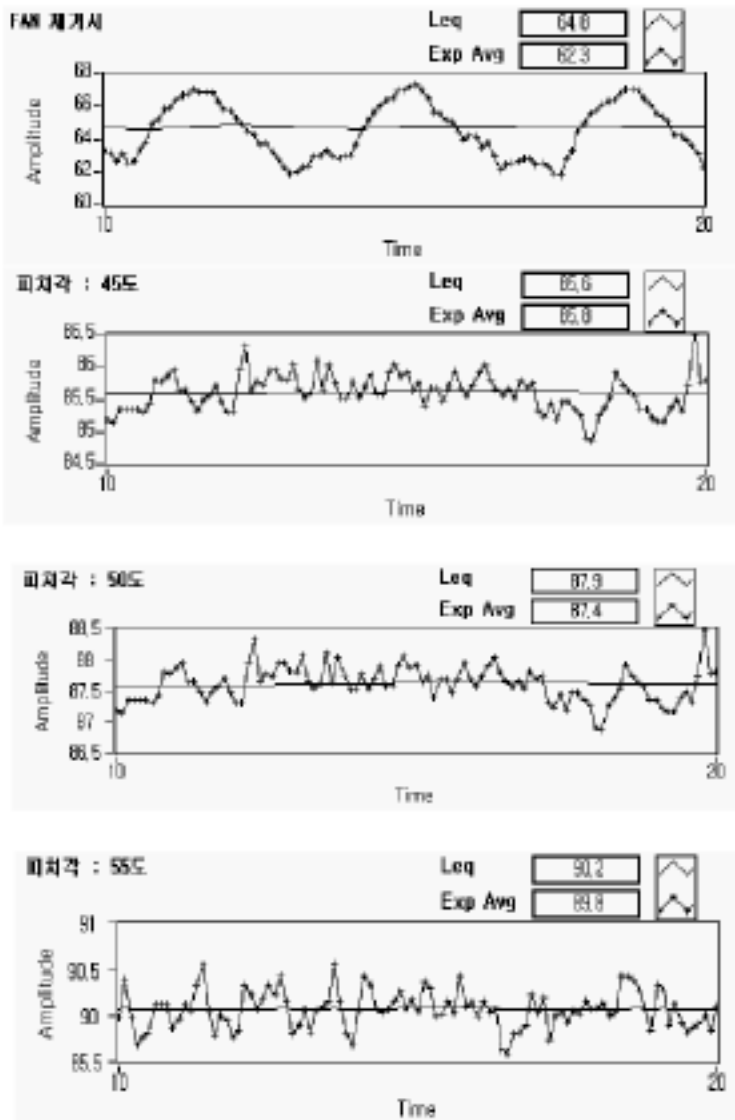


Fig. 2 Noise Data of the Fan test

3.

(1)

(2) AC

(3) AC

1. Walls.R. A., 1983, AxialFlow Fans and Ducts, John Willy and Son, Inc. Inc.
2. , " , " , 6 5 , pp541~545, 1996.