

Gamme AS

PRODUITS

Equalization and X-over recommendations

Rév. E 10/2018



AMPLIFIERS :

The electro-acoustic components used in the AS-3, AS-5 and AS-S10 speakers have been developed to ensure an ideal level of performance within the following frequency and amplification power ranges:

Model	AS-3	AS-5	AS-8	AS-S10	AS-S24
Frequency Range	110-20 kHz	80-20 kHz	70-20 kHz	45-250kHz	40-250 Hz
Recommended Power Amplifier	60 à 120 W	200 à 400 W	400 à 600 W	400 à 1 600 W	1 500 à 3 000 W

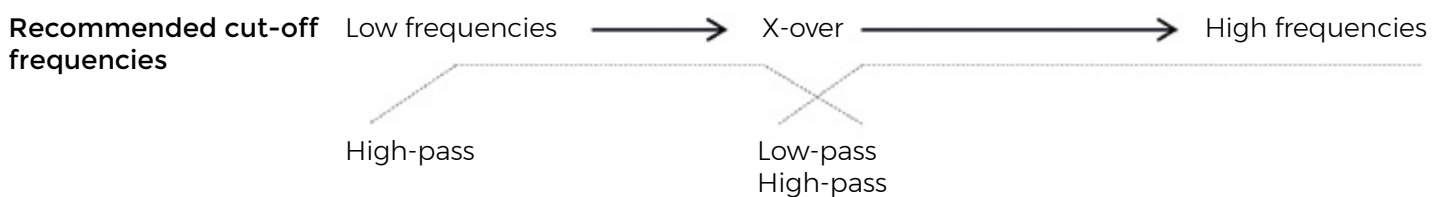


The use of low power amplifiers, when used at their maximum capabilities, may induce heavily distorted signals such as square sines. Those signals can lead to the destruction of the loudspeaker components.

X-over :

AS series speakers have been designed to bring high quality sound when used with most of the market's amplifiers and signal processors that meet the specifications given and recommended by FrenchFlair Audio.

In order to respect the frequency ranges for each speaker and constitute complete sound systems, please find below the recommended X-over frequencies :



AS-3	-	110 Hz
AS-3 with AS-S10	45 Hz	130 Hz (>24 dB/oct)
AS-5	-	110 Hz
AS-5 with AS-S10	45 Hz	130 Hz (>24 dB/oct)
AS-5 with AS-S24		

*- 80 Hz for a maximum power of 200 W. For use without a subwoofer.

- 120 Hz for a maximum power of 400 W. The power of 400 W is recommended for use with a subwoofer.

AS-8	-	110 Hz
AS-8 with AS-S24	45 Hz	130 Hz (>24 dB/oct)

EQUALIZATION :

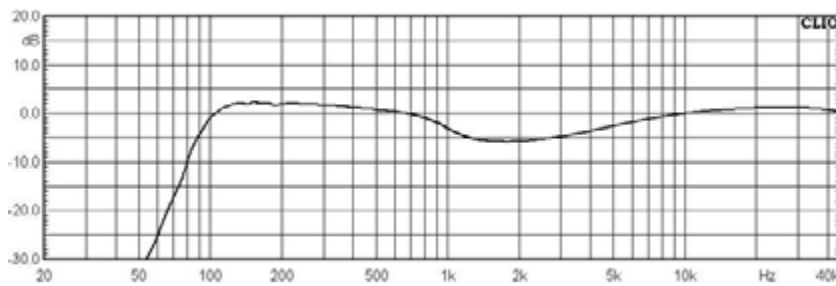
The following suggested equalizations result from listening tests and electroacoustic measurements. They are meant to cover a wide range of applications and make the speakers suitable for all sorts of musical and vocal materials.

The suggested equalization are to be put in place in complement to the X-over frequencies mentioned above.

AS-3

Filter priority	parameters			
high	PEQ	1.9kHz	-6.0dB	BW=3.50 oct/Q=0.40
medium	Low-Shelf	1.0kHz	+2.0dB	BW=1.00 oct/Q=1.41
low	Hi-Shelf	6.8kHz	+1.0dB	BW=2.41 oct/Q=0.53

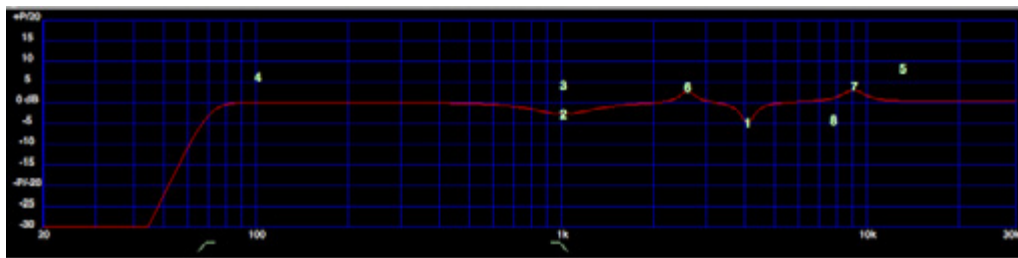
Course :



AS-3 equalization curve - as per the recommendations + Xover (100Hz , 36dB/oct)

AS-5

Filter priority	parameters			
high	PEQ	1.9kHz	-6.0dB	BW=3.50 oct/Q=0.40
medium	Low-Shelf	1.0kHz	+2.0dB	BW=1.00 oct/Q=1.41
low	Hi-Shelf	6.8kHz	+1.0dB	BW=2.41 oct/Q=0.53



AS-8

Filter priority	parameters			
high	PEQ	1.9kHz	-6.0dB	BW=3.50 oct/Q=0.40
medium	Low-Shelf	1.0kHz	+2.0dB	BW=1.00 oct/Q=1.41
low	Hi-Shelf	6.8kHz	+1.0dB	BW=2.41 oct/Q=0.53

AS-S10

With AS-3:

- No equalization
- No delay

With AS-5 :

- No equalization
- 0.3ms delay (applied on the AS-S10 subwoofer)

AS-S24

With AS-5:

- X
- X

With AS-8 :

- X
- X



The recommendations above are subjective indications. FrenchFlair Audio could not be held responsible for low quality sound resulting from other filtering parameters or inadequate to the environment within which the products are being used.