

AFI Series

FIXED INSTALLATION SPEAKERS



APOGEE
SOUND INTERNATIONAL



Introducing the Apogee Fixed Installation Series... AFI Loudspeakers

The Apogee AFI Series provides what sound contractors demand - high quality, highly reliable loudspeakers at a competitive price.

Models for Every Application Requirement

A wide variety of models suit the needs of a broad scope of application requirements for speakers, subwoofers, and monitors in small to mid-sized corporate boardrooms, school auditoriums, restaurants, bars, retail stores, houses of worship, theaters, concert halls, sport venues, theme parks, clubs, and discos.

Features and options include:

- **Apogee Quality Custom Drivers**
- **Apogee Quality Crossovers**
- **Magnetic Fluid-Cooled Drivers**
13 to 18 Ply Birch Hardwoods
- **Passive or Bi-amped**
Multiple Horn Pattern Options
- **Rotatable Horns**
- **Apogee or OmniMount Rigging**
- **Steel Reinforced Rigging Points**
- **Two Standard Colors, Black or White**
- **Custom Colors Available**

Loudspeaker Processing

The AFI Fixed Installation Series is a "processor optional" series, which means they can be used alone or with an additional processor. The choice is up to the installer.

Apogee offers two processor choices - the AFI Mainframe Controller (MFC) and the DLC24 Digital Loudspeaker Controller. The AFI-MFC provides dedicated processing including active protective limiting to guard against abuse, fixed EQ points, and electronic crossovers for the bi-amped models. The DLC24 is a networkable DSP-based management system for loudspeaker settings, user configurable room equalization and delay, and includes a full set of monitoring and control features. (The AFI-9 can only be used with the DLC24.)

AFI-Point 5

Loudspeaker System

The AFI-Point5 is an ultra-compact, high fidelity, full-range speaker system designed for applications where small size is required. It is perfect for monitoring, delay fill in theaters, and distributed systems.

ENGINEERING DATA

Format:

Mono Amp/Two-way

Drivers: LF: 5.25" (123mm) driver exit
HF: 0.5" (13mm) tweeter

Dispersion:

H: 100° x V: 100°

Frequency Response (1m on axis):

100 Hz to 20 kHz \pm 3 dB, -10 @ 60 Hz

Max. SPL (@1m):

104 dB cont./110 dB peak

PTML (Peak Transient Mechanical Limit):

121 dB

Sensitivity (1W @ 1m):

87.5 dBspl/100 Hz to 20 kHz

Nominal Impedance:

8 Ω

Max. Power Handling (cont./peak):

60W cont./240W peak

Dimensions:

front: 6.25"(159mm) W x 9.25"(235mm) H

rear: 5.625"(143mm) W x 9.25"(235mm) H

depth: 7"(178mm)

Weight:

4.5 lb. (2 kg)

AFI-Point 5



AFI-SERIES

AFI-1s2

Loudspeaker System

The AFI-1s2 is a powerful, full range, yet compact speaker, designed specifically for A/V presentations in corporate boardrooms, speech reinforcement in houses of worship, or for background music in restaurants and bars. The AFI-1s2 is also well suited for fill or delay in larger venues.

ENGINEERING DATA

Format:

Passive/Two-way

Drivers: LF: 8" (203mm) driver
HF: 1.4" (35.6mm) voice coil,
1" (25.4mm) driver exit

Dispersion:

H: 75° x V: 60° (rotatable)

Frequency Response (1m on axis):

66 Hz to 15.5 kHz \pm 3 dB

Max. SPL (@1m):

112 dB cont./118 dB peak

PTML (Peak Transient Mechanical Limit):

127 dB

Sensitivity (1W @ 1m):

93 dB

Nominal Impedance:

8 Ω

Max. Power Handling (cont./peak):

150 W cont./600 W peak

Dimensions:

front: 9.7"(247mm) W x 17.5"(446mm) H

rear: 5.8"(147mm) W x 17.5"(446mm) H

depth: 12.6"(320mm)

Weight:

26 lb. (11.8 kg)

AFI-1s2



AFI-SERIES

AFI-2s2



AFI-2s2 Loudspeaker System

The AFI-2s2, with its carefully arranged woofers, extends vertical pattern control down to 500 Hz making it ideal for smaller spaces with poor acoustics. It is well suited for use as the main speaker in mid-sized houses of worship, auditoriums, and meeting rooms. With 118 dB max SPL, the AFI-2s2 is powerful enough for bars and small clubs.

ENGINEERING DATA

Format:

Passive/Two-way

Drivers: LF: Two 8" (203mm) drivers

HF: 1.4" (35.6mm) voice coil,
1" (25.4mm) driver exit

Dispersion:

H: 75° x V: 60° (rotatable)

Frequency Response (1m on axis):

66 Hz to 15.5 kHz \pm 3 dB

Max. SPL (@1m):

120 dB cont./126 dB peak

PTML (Peak Transient Mechanical Limit):

135 dB

Sensitivity (1W @ 1m):

96 dB

Nominal Impedance:

16 Ω

Max. Power Handling (cont./peak):

225 W cont./900 W peak

Dimensions:

front: 9.7"(247mm) W x 26.4"(671mm) H

rear: 5.8"(147mm) W x 26.4"(671mm) H

depth: 12.7"(323mm)

Weight:

36 lb. (16.3 kg)

AFI-3



AFI-3 Loudspeaker System

The AFI-3 offers exceptional output power with excellent high frequency pattern control. With the addition of a subwoofer, the AFI-3 can handle high-level music in clubs and discos. The AFI-3 high frequency horn is available in a 60° x 45° or 90° x 45° pattern. These horns and the logo plate are rotatable to allow alternative hanging positions.

ENGINEERING DATA

Format:

Passive/Two-way

Drivers: LF: 10" (254mm) driver

HF: 1.75" (45mm) voice coil,
1" (25.4mm) driver exit

Dispersion: AFI-3 - H: 60° x V: 45° (rotatable)

AFI-3W - H: 90° x V: 45° (rotatable)

Frequency Response (1m on axis):

61 Hz to 20 kHz \pm 3 dB

Max. SPL (@1m):

120 dB cont./126 dB peak

PTML (Peak Transient Mechanical Limit):

137 dB

Sensitivity (1W @ 1m):

96 dBspl/100 Hz to 4 kHz

Nominal Impedance:

8 Ω

Max. Power Handling (cont./peak):

200 W cont./800 W peak

Dimensions:

front: 13.5"(343mm) W x 26"(660mm) H

rear: 8.2"(207mm) W x 26"(660mm) H

depth: 12.1"(307mm)

Weight:

45 lb. (21 kg)

AFI-4

Loudspeaker System

The AFI-4 is a fully arrayable loudspeaker versatile enough for clubs, discos, churches, theaters, and theme parks. Much of this versatility comes from the available options that include a 60° x 45°, or 90° x 45° horn as well as bi-amplification capabilities. These horns, as well as the logo plate, are rotatable to allow alternative hanging positions.

ENGINEERING DATA

Format:

AFI-4/4W Passive/Two-way
AFI-4B/4WB - Active/Bi-amped/Two-way

Drivers:

LF: 12" (305mm) driver
HF: 1.75" (45mm) voice coil,
1" (25.4mm) driver exit

Dispersion:

AFI-4/4B - H: 60° x V: 45° (rotatable)
AFI-4W/4WB - H: 90° x V: 45° (rotatable)

Frequency Response (1m on axis):

58 Hz to 20 kHz ± 3 dB

Max. SPL (@1m):

AFI-4 - 121 dB cont./127 dB peak
AFI-4B - 122 dB cont./128 dB peak

PTML (Peak Transient Mechanical Limit):

AFI-4: 138 dB; AFI-4B: 139 dB

Sensitivity (1W @ 1m):

AFI-4: 99 dBspl/100 Hz to 4 kHz
AFI-4B LF: 99 dBspl/100 Hz to 1.4 kHz
HF: 103 dBspl/1.4 kHz to 5 kHz

Nominal Impedance:

8Ω, each driver

Max. Power Handling (cont./peak):

AFI-4: 200 W cont./800 W peak
AFI-4B LF: 200 W cont./800 W peak
HF: 75 W cont./300 W peak

Dimensions:

front: 15.3"(389mm) W x 28.2"(716mm) H
rear: 9.9"(252mm) W x 28.2"(716mm) H
depth: 12.1"(307mm)

Weight:

53 lb. (24 kg)

AFI-4



AFI-4M

Stage Monitor

The AFI-4M is a two-way multi-angle monitor available in a passive or bi-amplified configuration. Additionally, the high frequency horn is available in both a 60° x 45° and a 90° x 45° pattern, both rotatable.

ENGINEERING DATA

Format:

AFI-4M/4MW Passive/Two-way
AFI-4MB/4MWB - Active/Bi-amped/Two-way

Drivers:

LF: 12" (305mm) driver
HF: 1.75" (45mm) voice coil,
1" (25.4mm) driver exit

Dispersion:

AFI-4M/4MB - H: 60° x V: 45° (rotatable)
AFI-4MW/4MWB - H: 90° x V: 45° (rotatable)

Frequency Response (1m on axis):

58 Hz to 20 kHz ± 3 dB

Max. SPL (@1m):

AFI-4M - 121 dB cont./127 dB peak
AFI-4MB - 122 dB cont./128 dB peak

PTML (Peak Transient Mechanical Limit):

AFI-4M: 138 dB; AFI-4MB: 139 dB

Sensitivity (1W @ 1m):

AFI-4M: 99 dBspl/100 Hz to 4 kHz
AFI-4MB LF: 99 dBspl/100 Hz to 1.4 kHz
HF: 103 dBspl/1.4 kHz to 5 kHz

Nominal Impedance:

8Ω, each driver

Max. Power Handling (cont./peak):

AFI-4M: 200 W cont./800 W peak
AFI-4MB LF: 200 W cont./800 W peak
HF: 75 W cont./300 W peak

Dimensions:

28.1"(714mm) W x 14.7"(373mm) H
x 14.9"(379mm) D

Weight:

53 lb. (24 kg)

AFI-4M



AFI-8



AFI-8

Loudspeaker System

The AFI-8 is a fully arrayable loudspeaker capable of filling large churches, theaters, sports venues, and theme parks with clean, articulate full bandwidth sound. Available with a 60° x 40°, or 90° x 40°, high frequency horn patterns insuring that the AFI-8 works flawlessly in any room configuration. A bi-amplified version is also available.

ENGINEERING DATA

Format:

AFI-8/8W Passive/Two-way
AFI-8B/8WB Active/Bi-amped/Two-way

Drivers:

LF: 15" (381mm) driver
HF: 3" (76mm) voice coil,
2" (51mm) driver exit

Dispersion:

AFI-8/8B - H: 60° x V: 40°
AFI-8W/8WB - H: 90° x V: 40°

Frequency Response (1m on axis):

46 Hz to 20 kHz \pm 3 dB

Max. SPL (@1m):

AFI-8 - 124 dB cont./130 dB peak
AFI-8B - 125 dB cont./131 dB peak

PTML (Peak Transient Mechanical Limit):

AFI-8: 141 dB; AFI-8B: 142 dB

Sensitivity (1W @ 1m):

AFI-8: 98 dBspl/100 Hz to 4 kHz
AFI-8B LF: 99 dBspl/100 Hz to 900 Hz
HF: 104 dBspl/900 Hz to 5 kHz

Nominal Impedance:

8 Ω , each driver

Max. Power Handling (cont./peak):

AFI-8: 400 W cont./1600 W peak
AFI-8B LF: 400 W cont./1600 W peak
HF: 150 W cont./600 W peak

Dimensions:

front: 20.25"(515mm) W x 30.25"(769mm) H
rear: 13.3"(338mm) W x 30.25"(769mm) H
depth: 15.1"(384mm)

Weight:

77 lb. (35 kg)

AFI-9



AFI-9

Loudspeaker System

The AFI-9 is a fully arrayable loudspeaker capable of filling large churches, theaters, sports venues, and theme parks with clean, articulate full bandwidth sound. Available with a 60° x 40° high frequency horn pattern insuring that the AFI-9 works flawlessly in any room configuration.

ENGINEERING DATA

Format:

Passive/Three-way

Drivers:

LF: Dual 12" (305mm) drivers
MF: Dual 6.5" (165mm) cone-type drivers
HF: 4" (100mm) voice coil,
2" (51mm) exit driver

Dispersion:

H: 60° x V: 40°

Frequency Response (1m on axis):

55 Hz to 20 kHz \pm 3 dB

Max. SPL (@1m):

130 dB cont./136 dB peak

PTML (Peak Transient Mechanical Limit):

147 dB

Sensitivity (1W @ 1m):

104 dBspl/100 Hz to 10 kHz

Nominal Impedance: 16 ohms

Each driver:

LF: 2 X 8 Ω = 16 Ω

MF: 2 X 8 Ω = 16 Ω

HF: 1 X 8 Ω = 8 Ω

Max. Power Handling (cont./peak):

600 W cont./2400 W peak

Dimensions:

front: 28.25"(717mm) W x 30.83"(783mm) H

rear: 15.39"(391mm) W x 30.83"(783mm) H

depth: 24.95"(634mm)

Weight:

144 lb. (65.3 kg)

AFI-115 Subwoofer System

The AFI-115 features a high power, long excursion, fluid treated 15" (380mm) cone driver capable of powerful, tight, and extremely rich bass. It works perfectly in combination with the AFI-4, AFI-3, or other smaller AFI full-range speakers. The AFI-115 is superb for multi-media presentations, clubs, houses of worship, discos, concert halls, and theaters.

ENGINEERING DATA

Format: Front-loaded

Drivers:

LF: 15" (381mm) driver

Dispersion:

Omni-directional

Frequency Response (1m on axis):

40 Hz to 125 Hz \pm 3 dB

Max. SPL (@1m):

122 dB cont./128 dB peak

PTML (Peak Transient Mechanical Limit):

139 dB

Sensitivity (1W @ 1m):

97 dB

Nominal Impedance:

8 Ω

Max. Power Handling (cont./peak):

400 W cont./1600 W peak

Dimensions:

21"(534mm) W x 20.9"(531mm) H
x 22.3"(567mm) D

Weight:

71 lb. (33 kg)

AFI-115



AFI-118 Subwoofer System

The AFI-118 features a high power, long excursion, 18" (460mm) cone driver capable of deep, rich, and extremely powerful bass. It works perfectly in combination with any AFI full-range speaker. The AFI-118 is superb for multi-media presentations, clubs, churches, discos, concert halls, and theaters.

ENGINEERING DATA

Format: Front-loaded

Drivers:

LF: 18" (460mm) driver

Dispersion:

Omni-directional

Frequency Response (1m on axis):

35 Hz to 70 Hz \pm 3 dB

Max. SPL (@1m):

125 dB cont./131 dB peak

PTML (Peak Transient Mechanical Limit):

154 dB

Sensitivity (1W @ 1m):

98 dB

Nominal Impedance:

8 Ω

Max. Power Handling (cont./peak):

600 W cont./2400 W peak

Dimensions:

21"(534mm) W x 27"(686mm) H
x 27.1"(689mm) D

Weight:

97 lb. (44 kg)

AFI-118



Apogee AFI Loudspeaker Rigging Systems

The various yokes and assemblies listed in this section have been designed, built, and tested to provide safe, proper, and economical methods of employing Apogee speaker systems in both fixed installations and temporary applications. Apogee also provides additional hardware not shown here.

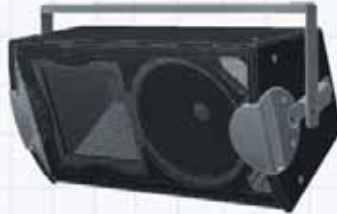
AFI-1 with Yoke Assembly

One piece yokes are available for all AFI products smaller than the AFI-3.



AFI-4 with Horizontal Yoke Assembly

Horizontal Yoke Assemblies are available for the AFI-3 and the AFI-4.



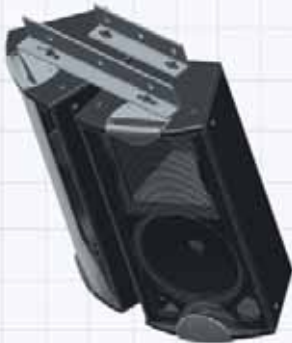
AFI-4 with Vertical Yoke Assembly

Vertical Yoke Assemblies are available for the AFI-3, AFI-4, and AFI-8.



AFI-4 with Adjustable Rigging Beam

Adjustable Rigging Beam Assemblies are available for the AFI-3, AFI-4, and the AFI-8.



AFI-4 with Tight Pack Rigging Plates

Tight Pack Rigging Plate Assemblies are available for the AFI-3, AFI-4, and the AFI-8.



AFI-9 with Yoke Assembly

Vertical yokes are available for the AFI-9.



OmniMount Option

Most AFI loudspeakers (not subwoofers) are designed to accept OmniMount mounting brackets. For the precise attachment location & model numbers, please visit our web site at: www.apogee-sound.com



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