

FO S112 F

Article number: (black) 1008066, (white/RAL*) 1008095

The FO S112 F is the flyable version of the extremely compact FO S112 subwoofer. With its 12" woofer with 2.5" voice coil and 50 Hz tuning frequency, it makes the ideal low-end support with powerful bass and high sound pressure as a system subwoofer or surround LFE for installations with compact speakers like the FO 5.

Installation is simple and secure with the optionally available U-bracket or AP-8 attachment points. Four M8 threads on the side and four M8 threads on the top are available for mounting. For aesthetic reasons, the FO S112 F does not have the cut-outs for cable routing or rubber feet.

A secondary grille protects the bass reflex port from accidental or deliberate insertion of foreign objects. A ball-impact resistance certificate in line with DIN 18032-3 is provided for installations in sports facilities.

Features:

- Compact, powerful subwoofer for modern music styles with flow-optimized bass reflex port
- Optimised for flown operation, either on M8 mounting points for AP-8 or with the optional U-brackets for ceiling mounting
- Support for Lab.Gruppen IPX and LEA Professional with DSP Presets and other DSP platforms with Filter Sheets in open table format
- Extremely solid cabinets in acoustically pleasing MDF design and foam-backed grille with additional steel reinforcements
- Designed with 2 lockable Neutrik Speakon sockets
- Strongly constructed internal steel braces and mountings for the rigging and fixing points as standard, guaranteeing a secure fixed installation in compliance with strict German and European standards
- Secondary grille protects the bass reflex port from accidental or deliberate insertion of foreign objects
- Simulation data for EASE and EASE FOCUS for predicting sound distribution and combination with other HK Audio mid/high units
- Certified ball-impact resistant in line with DIN 18032-3



Characteristics

Concept	Passive subwoofer
Cabinet principle	Bass reflex
Power handling RMS	600 W
Power handling program	1200 W
Power handling peak	2400 W
Nominal impedance ¹⁾	8 ohms
Max. SPL average ²⁾	116 dB
Max. SPL peak ³⁾	120 dB
Sensitivity 1 W/1 m ⁴⁾	91 dB
Frequency range -6 dB	61 Hz - crossover frequency
Frequency range -10 dB	42 Hz - crossover frequency
Dispersion angle -6 dB	omnidirectional

Certifications

Ball impact resistance (DIN 18032-3)	certified (MPA University Stuttgart)
IP protection class (EN 60529)	not specified

Components

Low frequency	1x 12" Sica cone speaker with ferrite magnet and 2.5" voice coil
Crossover	no internal crossover

Connections

Input	1 x NL4 Speakon
Output/parallel output	1 x NL4 Speakon
Pin assignment	2+/- (input/parallel output), 1+/- (wired through)

Amping/DSP Presets

Lab.Gruppen	IPX
LEA Professional	Sharkware

Amping/Filter Sheets

Filter specifications in tabular form for frequency response equalization. Without limiter specifications	Biamp Tesira, BSS, Lab.gruppen, Lake, Linea Research, Marani, Powersoft, QSC Q-SYS, Symetrix
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Mechanical data

Cabinet material	MDF
Cabinet surface	1-component acrylic enamel
Mounting points	4 x M8 lateral, 4 x M8 lid
Color	Jet black (RAL 9005), signal white (RAL 9003) or special color according to catalog
Front grille	Steel front grille with anticorrosive coating, backed acoustic foam and additional steel reinforcements
Secondary grille	Insertion protection of the bass reflex port made of coated expanded metal
Cable routing	n/a
Feet	n/a
Accessories	U-bracket, AP-8
Dimensions (WxHxD)	474 x 478 x 506 mm 18.66 x 18.82 x 19.92 inch
Weight	25.2 kg / 55.56 lbs



Declaration of conformity

Konformitätserklärung

This is to certify that
HK AUDIO FINEO
FD 5 • FD 8 • FD 10 • FD 12 • FD 15 • FD 512 • FD 512F • FD 518 • FD 518F • FD 5218 • FD 5218F •

comply with the provisions of the Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS).

This declaration of conformity of the European Union is the result of an examination carried out by the Quality Assurance Department of STAMER MUSKANLAGEN GmbH in accordance with European Standards EN IEC 63000:2018 for RoHS.



Stamer Muskanlagen GmbH
Magdeburger Str. 8, 66506 St. Wendel, Germany


L. Stamer
Lothar Stamer, Dipl.-Ing.
Managing Director
St. Wendel, 24/08/2023

Für die nachfolgend bezeichneten Erzeugnisse
HK AUDIO FINEO
FD 5 • FD 8 • FD 10 • FD 12 • FD 15 • FD 512 • FD 512F • FD 518 • FD 518F • FD 5218 • FD 5218F •

wird hiermit bestätigt, dass sie den wesentlichen Schutzanforderungen entsprechen, die in der Richtlinie 2011/65/EU zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten (RoHS) festgelegt sind.

Diese Erklärung gilt für alle Exemplare und bestätigt die Ergebnisse der Messungen, die durch die Qualitätsicherung der STAMER MUSKANLAGEN GmbH durchgeführt wurden.

Zur Beurteilung der Einhaltung der RoHS-Richtlinie wurde folgende Norm herangezogen: EN IEC 63000:2018.



Stamer Muskanlagen GmbH
Magdeburger Str. 8, 66506 St. Wendel, Deutschland

L. Stamer
Lothar Stamer, Dipl.-Ing.
Managing Director
St. Wendel, 24.08.2023



Hauptprüfer Herr Univ.-Prof. Dr. Frank Hees, Prof. Dr. Frank Hees
Stamer Muskanlagen GmbH
Trautenbergstraße 3
66506 St. Wendel

Bestätigung der Ballierfestigkeit nach DIN 18032-3:2018-11

Stuttgart, den 16.05.2023

Sehr geehrte Damen und Herren:

Ich bestätige die Prüfung der Ballierfestigkeit nach DIN 18032-3 (alte Fassung) der Prüferreihe 904 1802 0001, 904 1805 2005 und 904 1802 0006, jeweils mit 15 (30, 2023) Belastungen mit dem folgenden Lastspeicher der Serie FINEO durch diese Prüfungen mit abgedeckten Kunden als fehlerfrei zu bewerten sind.

- 108800-FINEO-FD-12 (baugleich mit 108801-FD-15)
- 108802-FINEO-FD-512 (baugleich mit 108803-FD-518)
- 108806-FINEO-FD-5112F (baugleich mit 108805-FD-5118F)

Mit freundlichen Grüßen,
Mengenprüfer Herr Univ.-Prof. Dr. Frank Hees

Dr. Frank Hees
Dr. Frank Hees



Kunde:
Firma: Stamer Muskanlagen GmbH
Abteilung: Technische Qualitätssicherung
Ort: St. Wendel, Trautenbergstraße 3
Prüfungsort:
108800-FINEO-FD-12
01.10.2023 15:00:00
Fw: 101171 486 25238
Kunde: Stamer Muskanlagen GmbH
www.stm.de

Prüfung:
Prüfungsort: St. Wendel, Trautenbergstraße 3
Prüfungstermin: 16.05.2023

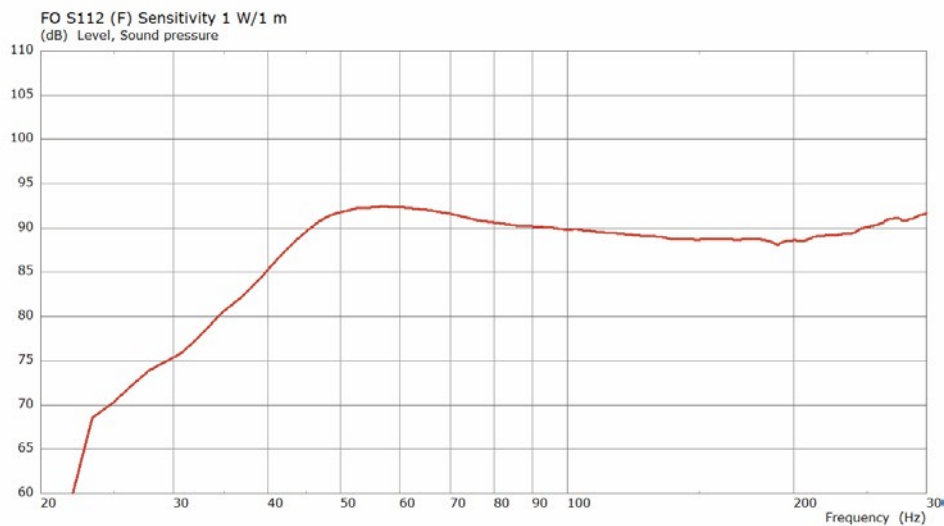
Schadenfrei nach Schaden und Angabe, wenn Abweichungen zu den abgedruckten Angaben vorliegen, sind zu melden und dem Prüfer über den Schaden zu berichten.

Bestätigung:
Name: Frank Hees
Ort: St. Wendel, Trautenbergstraße 3
Datum: 16.05.2023 15:00:00
Prüfung: 108800-FINEO-FD-12
Prüfungstermin: 16.05.2023 15:00:00
Prüfungsort: St. Wendel, Trautenbergstraße 3

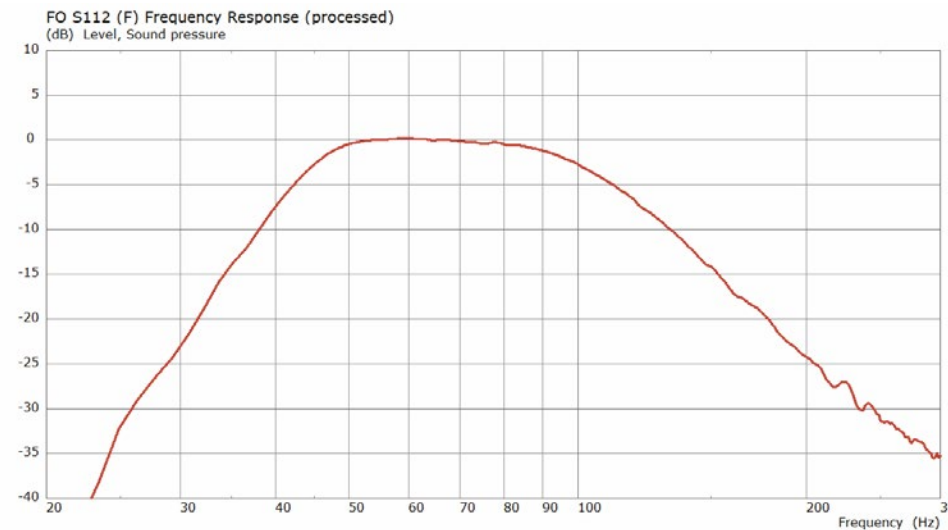



1) According to EN 60268-5 (minimum value not less than 80% of nominal value)
2) 1 m, 10 % THD @ 40 Hz - 100 Hz, (EN 60268-21), full space
3) 1 m, 10 % THD @ 65 Hz, full space
4) 40 Hz - 100 Hz, full space

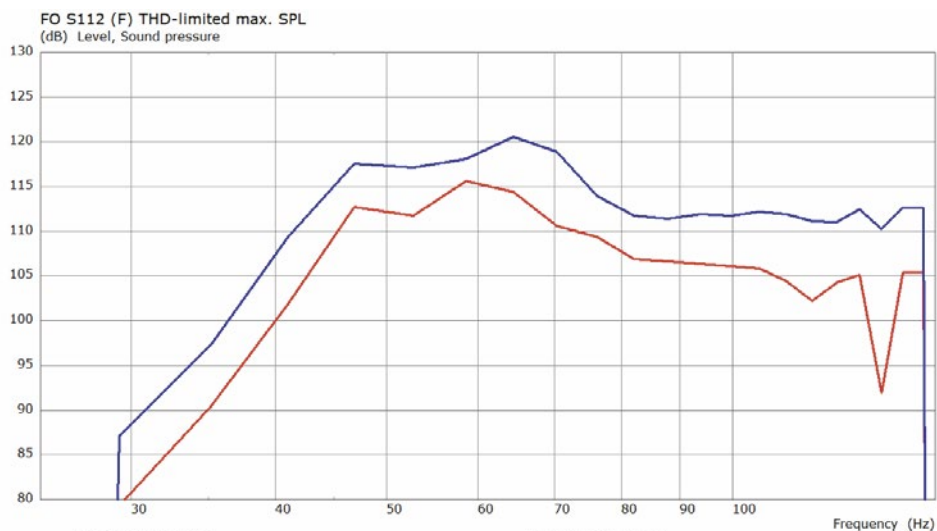
FO S112 F Electroacoustic measurements



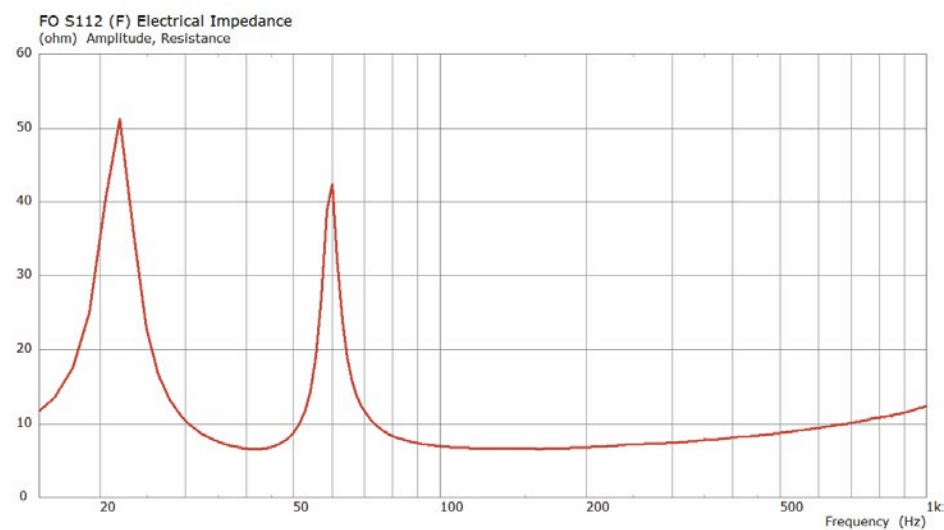
Frequency response, without DSP



Frequency response with DSP preset



Max. SPL (red = 3 % THD, blue = 10 % THD)



Electrical impedance

Accessories

U-bracket

Article number: (black) 1008064, (white/RAL*) 1008104

FO S112 F U-bracket made of high-strength powder-coated steel for fixed installation of an FO S112 F to a ceiling. Can be installed at a slight downward angle to allow foreign objects or liquids that may enter the bass reflex port to easily fall out or drain away. Ball-impact resistance certificate in line with DIN 18032-3, test statistics for operation over an audience can be provided if required.

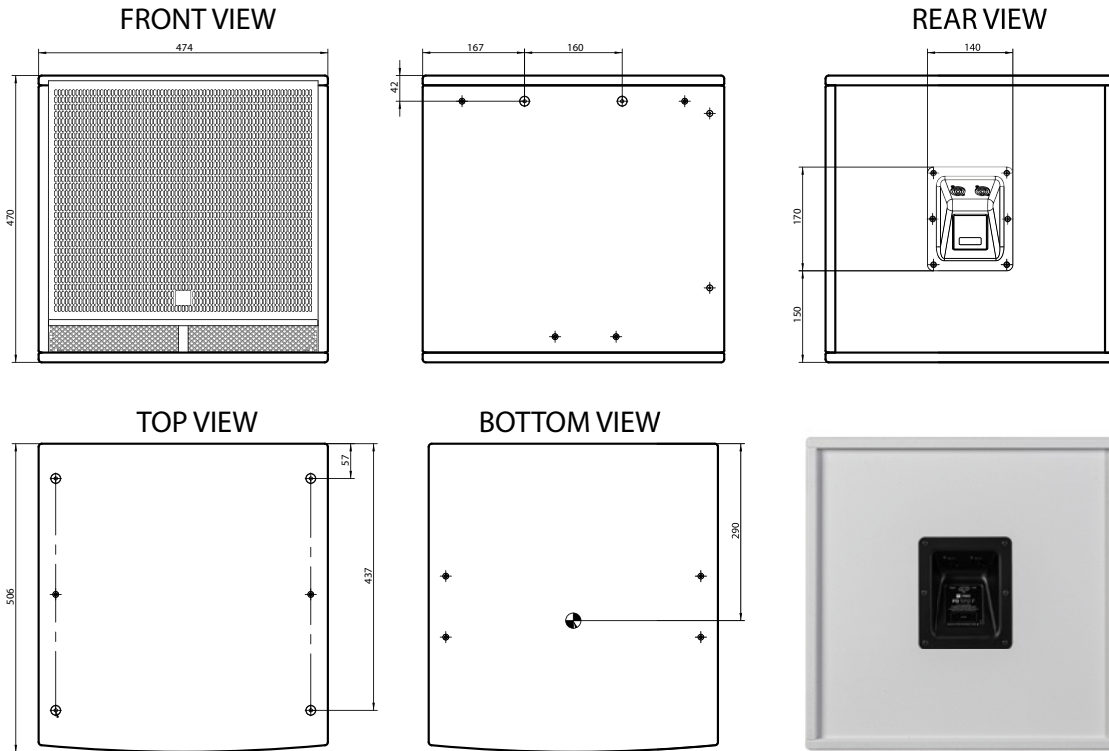


AP-8

Article number: 1007376 AP8 black, single, 1007375 AP8 white/RAL, single
1990192 AP8 black, Set of three, 1990193 AP8 white/RAL, Set of three
1990194 AP8 black, Set of four, 1990195 AP8 white/RAL, Set of four

Attachment points with unscrewing protection for mounting on a ceiling or crossbeam. Simple attachment to the M8 mounting threads. Available in sets of 3 or 4 AP-8s as well as individually.





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