

Arc-Series Architectural Sound Design.

















Description

The extremely high-quality speaker configuration with 6.5" bassmid speaker and 1" compression driver with constant directivity horn guarantees outstanding speech intelligibility. The elegant wooden housing is available in all RAL colours.

The rounded wooden housing is reinforced on the inside with steel brackets. TÜV-certified wall brackets and 8x M6 threaded inserts ensure quick and secure installation. Integral crossover with electronic high frequency protection. Can be combined with subwoofer AS-10/ASP-10 or AS-20/ASP-20.

Optional versions

Optional Piano finish black with chrome strips. All RAL colours. Optional special weatherproof plastic coating. Optional 100 volts version.

Technical specifications

electro-acoustical features

acoustic design	passive loudspeaker, 2-way, bass reflex
components	6,5" / 1" on rotatable CD-horn,
	with self-resetting Polyswitch-HF protection
power rating (nominal) ^[1]	150 W
power rating (program) ^[2]	300 W
power rating (peak)[3]	600 W
sensitivity ^[4]	96 dB
maximum SPL[3]	123 dB
frequency range ^[5]	65 Hz – 20 kHz
nominal dispersion (h x v)[6]	90° x 60°
nominal impedance	16 ohms

The manufacturer reserves the right to make technical modifications according to legal regulations stipulating the continual improvement of product features.

The Fohhn® AT-07 impresses with its high performance capacity within such compact dimensions and extremely attractive design. It is designed for applications that require high acoustic output, but for aesthetic reasons, only allow compact dimensions.

Applications

Training rooms, 5.1 Surround applications, Bars, Clubs, Shops, Installation under balconies or galleries, Near-field sound transmission.

Connections

Dual connector panel - Speakon and internal 4-way terminal connector with cable outlet. You can either use the Speakon socket or connect the stripped cable ends to the terminal and insert the cable through the outlet.

Speakon configuration

1- = In- LowZ (Common 100 Volt)

1+ = In+ LowZ od. 25% (100 Volt)

2- = Input 50% (100 Volt Option)

2+ = Input 100% (100 Volt Option) Optional 100 volts version.



features

enclosure	birch ply	wood designer cabinet, metal strengthened									
protection grille	ball ir	npact resistant metal, powder coated finish									
rigging points		9x M6 thread									
connections	1x Neutr	ik NL4 Speakon and 4-pole connector inside									
standard colours		textured finish black or white									
frontal design		acoustic foam, same colour as enclosure									
dimensions (W x H	x D)	195 x 380 x 230 mm									
weight ^[7]		7 kg									
optional features											
integrated 100 V-tr	ansformer	60/30/15 W									
optional colours		all RAL-colours									
special finishes		piano lacquer black, chromium-plated trim									
weather protection		scratch-proof plastic coating,									
		impregnated speaker membranes									
CAAD simulation of	data	ULYSSES, EASE									

^{[5] -10} dB under anechoic halfspace-conditions

 $^{^{\}scriptscriptstyle{[1]}}$ according to IEC-60268-5 long term

^[2] according to IEC-60268-5 short term

^[3] Peak, 20 ms with bandpass filtered pink noise signal according to IEC 60268-2 at one octave above the lower limit of the frequency range

^{[4] 2,83} V at 8 ohms (2 V at 4 ohms, 4 V at 16 ohms) at a distance of 1 meter under anechoic fullspace conditions

^[6] horizontal x vertical at -6 dB, rotatable horn

^[7] net weight without optional equipment

^[1] Intelligent Protection Circuit. Voltage-controlled semiconductor circuit protecting the HF-driver against overload highly effective and with very short attack time.



1. Fohhn system DSP amplifiers

Fohhn offers a range of specially adapted system DSP amplifiers for controlling Arc speaker systems, which guarantee maximum sound performance and operational reliability for your Fohhn products. As manufacturers of speaker, amplifier and DSP technology, we know our systems inside and out right down to the smallest detail and are therefore in a perfect position to provide our users with the best overall system.

Fohhn System DSP amplifier are offering following advantages:

Integrated high-performance DSP technology:

- quick set-up,
- minimal space requirements in electronics cabinet,
- minimal cable requirements,
- fewer cable faults,
- controller and amplifier can be controlled and monitored using the same software.

Dual DSP technology

The DSP amplifiers contain 2 separate DSP engines with enormous capacity and processing power for 5 digital audio devices (DSP-1) and Fohhn specific speaker databases (DSP-2).

Remote monitoring and control

Integrated temperature and operating time monitor, status indicator / protection, remote control capability / network compatibility using a laptop, wall installation modules or media control systems.

Fohhn® dual DSP technology

DSP-1: Integrated digital audio devices Each amplifier channel has a:

- programmable 10 band parametric EQ,
- compressor/limiter/noise gate,
- delay,
- X-over function,
- top-quality pink noise and sweeptone generator

DSP-2: Speaker management

An integrated speaker database quarantees excellent sound quality and protection for all Fohhn speaker types. A sophisticated algorithm developed by Fohhn engineers and adapted to each speaker allows the individual monitoring and adjustment of bass, mid and high ranges.

1.1 Amplifier recommendations for the Arc-Series



D-2.750

2 channel operation, 2x 750 W / 4 ohms, 2x 390 W / 8 ohms Fohhn Audio DSP, display, remote control

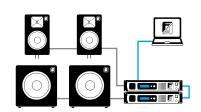
D-4,750

4+2 channel operation, 4x 750 W / 4 ohms, 4x 390 W / 8 ohms

2x DSP line out channels for controlling a conventional amplifier

Fohhn Audio DSP, display, remote control

	Arc-Tops											Linea			Arc-Subs								
	AT-05	AT-06	AT-07	AT-08	AT-09	AT-10	AT-20	AT-21w	AT-30	AT-35	AT-40	AT-50	AT-66	AL-10-150		AS-10	ASP-10	AS-20	ASP-20	AS-30	ASP-30	AS-40	ASP-40
D-2.750	х	x	x	x	х	х	х	х	х					x		х	х	х	x				
D-4.750	х	х	х	х	х	х	х	х	х					х		х	х	х	х				
D-2.1500									х	x	x	x	x							x	x	х	x
D-4.1200										x	x	x	x							x	x	х	x



2x Sub passive / 2x Top passive 2x DSP amplifier (D-Series or A-Series)



2. Standard amplifiers combined with Fohhn controllers

Standard amplifiers / 100V amplifiers / multichannel amplifiers combined with Fohhn FC-9 DSP system controllers

All of the speaker systems in the Fohhn Arc-Series can be operated in combination with standard amplifiers (e.g. Bittner amplifiers). Each Fohhn speaker model has a linear design, neutral sound adaptation function and is fitted with an integrated crossover with electronic tweeter protection.

We recommend integrating the FC-9 Fohhn DSP system controller for applications involving standard multichannel amplifiers, 100V amplifiers or monitored amplifiers according to EN 60849.

The FC-9 guarantees maximum sound quality, operational reliability and performance features that no other standard controller can offer in combination with our Fohhn speakers.

Sound quality. Reliability. Intelligent control.

- * Fohhn DSPs guarantee maximum sound performance
- * 5 premium audio tools such as Parametric EQ are integrated
- * Integral speaker and amplifier database for maximum operating reliability
- * Remote monitoring/operation, network-compatible
- * Automatic amplifier calibration function CAS
- * 8 input switching contacts for easy system integration
- * Perfect adaptation to all standard amplifiers

FC-9 DSP system controller



DIN EN 60849 (VDE 0828)

Bittner amplifiers



BITTNER

In addition to our special Fohhn® DSP amplifiers, we also offer the complete range of amplifiers manufactured by Bittner Audio for low-ohm or 100 volt applications. Bittner Audio offers solutions such as multichannel amplifiers with eight standard channels and important features for integration in electroacoustic emergency warning systems according to DIN EN 60849 (VDE 0828). Contact us for more information!

Advantages of the FC-9 controller:

Perfect adaptation to all standard amplifiers

Automatic amplifier calibration function and integrated amplifier database for perfect adaptation.

Dual DSP technology

The FC-9 contains 2 separate DSP engines with enormous capacity and processing power for Fohhn specific speaker databases and 5 digital audio devices.

Integrated speaker database

Guarantees excellent sound quality and protection for all Fohhn speaker types.

A sophisticated algorithm developed by Fohhn engineers and adapted to each speaker allows the individual monitoring and adjustment of bass, mid and high ranges.

Remote monitoring and control

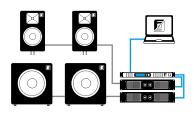
Remote control capability / network compatibility using a laptop, wall installation modules or media control systems.

8 input switching contacts

The FC-9 has 8 input contacts. The inputs can be utilized to switch between the different presets of the FC-9, as well as other Fohhn-Net devices. With two inputs and two pushbuttons (shutters) connected to them, a volume control can be realized as well.

4 inputs / 6 outputs (24 nodes)

A programmable 10-band parametric EQ, compressor/ limiter/noise gate, delay, X-over function, top-quality pink noise and sweeptone generator are available at each output, allowing you to conveniently adapt the Fohhn system to the room acoustics or your own personal requirements.



2x Sub passive / 2x Top passive 2x standard amplifiers 1x DSP system controller FC-8



FR-10

remote control wall panel designed for the remote operation of Fohhn devices with integrated DSP.



Description

The FR-10 is a wall mount remote control module designed for the remote operation of Fohhn DSP amplifiers, DSP controllers and active Fohhn speakers systems. The FR-10 is extremely easy to operate because the controls are so well arranged. It is virtually impossible for the end customer to make operating errors because the only operating elements are the 8 labelled buttons.

Easy handling

Control up to 32 Fohhn devices individually with this stylish FR-10 wall panel. 8 programmable buttons can be configured to control the overall volume of a system, the volume in different zones or presets for different room effects, for example. The system also has a special function that confirms whether all commands have been executed successfully. The buttons indicate this by changing red or green shortly after they are pressed. For example, if a device is not switched on, the button changes red to indicate that a command could not be executed. This additional monitoring function ultimately contributes to the overall operating reliability of your system. The wall panel is easy to configure using a standard computer with intuitive Fohhn-Net Remote software installed.

Connections

Two terminal strips (paralelled). Alternative connection via standard 4-wire telephone cable.

Applications

The FR-10 is ideal for training rooms, hotels, churches, halls, restaurants or any venue where a simple, efficient system is required to control your audio equipment from a central location.

The FR-10 is also ideal for projects where complex media control systems are not viable or inappropriate, but the user wishes to control the speaker system centrally.

FR-20

19" remote control unit can be controlled via conventional external buttons or switches.



Description

The FR-20 can be controlled via conventional external buttons or switches (e.g. Jung, Vitra, etc.) or switching contacts (e.g. media control system). Buttons and switches may come in the form of a wall installation module or an individually manufactured control panel, for example.

Presets stored in the connected Fohhn DSP devices are activated simultaneously and settings for different scenarios such as speech, music, empty room, full room, etc are loaded when the buttons/switches are pressed. You can also adjust the volume quickly and easily in 1 dB increments using the FR-20. A maximum of 31 Fohhn devices connected to the network can be activated simultaneously at the press of a single button.

Integration in a media control system

The FR-20 allows the convenient integration of all DSP-controlled Fohhn devices into media control systems (e.g. AMX, Crestron) by means of 8 switching contacts or RS-485 interface.

Integration in a EIB bus technology

One building, one concept, one system.

Fohhn systems equipped with a FR-20 distribution switch comply with the "European installation bus technology" standard, including all operating comforts.

Applications

The FR-20 is ideal for training rooms, hotels, churches, halls, restaurants, clubs, bars and many other venues.

For simple, reliable remote operation of your audio system without having to install complex, expensive media control systems.





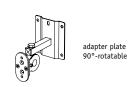
WAT-08k

Wall bracket short, universal adjustment 360° for AT-05/061/07/08/09/10/201, AL-50/100/150



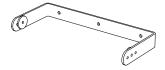
WAT-08

Wall bracket, universal adjustment 360° for AT-05/061/07/08/09/10/201, AL-50/100/150



QAT-07

Horizontal bracket for AT-061/07

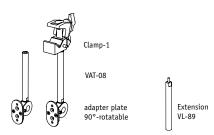


VAT-08

Special bracket for traverse mounting e.g. with Clamp-1 with M10 female thread, extendable with VL-89.

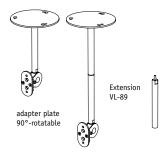
Clamp+bolt: Clamp-1 with threat bolt M10 for traverse mounting up to 15 kg

VL-89: Extension for VAT-08 and VAT-09 l=180mm, M10 thread



VAT-09

Bracket for ceiling mounting for AT-05/06/07/08/09 l=180mm M10 thread, extendable with VL-89



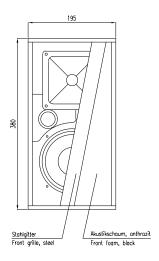
EB-06

Ring stud DIN 580, zinc, for safety M6 thread for AT-05/061/07/08/09/10

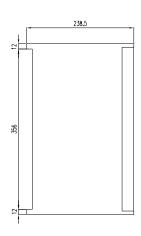




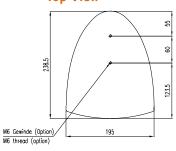
Front view



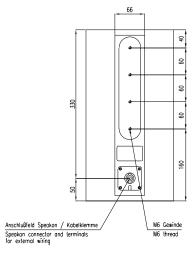
Side view



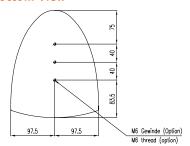
Top View



Rear view



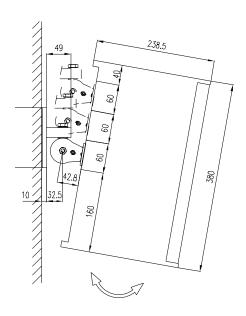
Bottom view



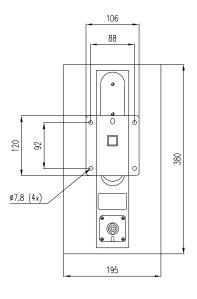


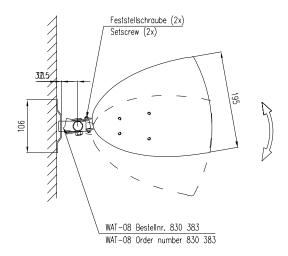
Wall mount

Side view



Rear view

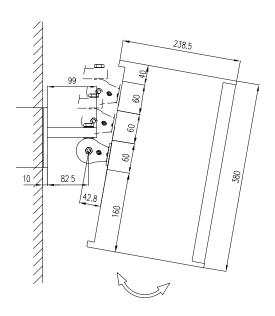




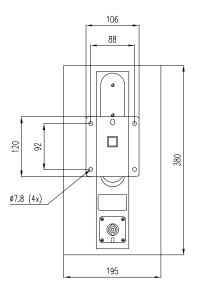


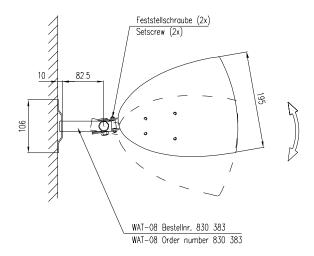
Wall mount

Side view



Rear view

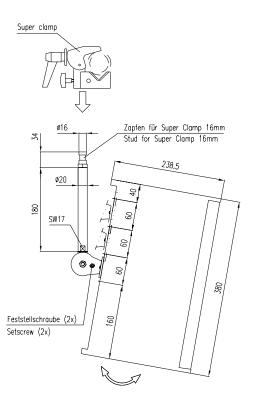




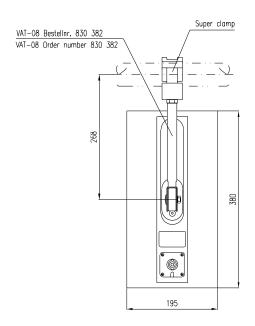


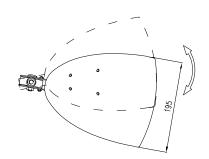
Traverse mount

Side view



Rear view

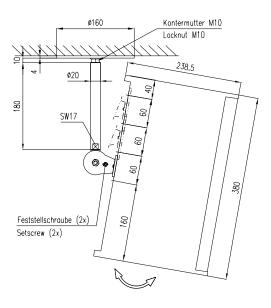




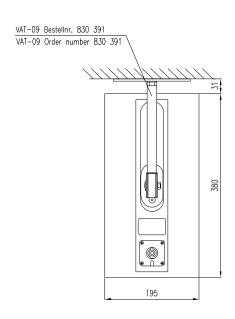


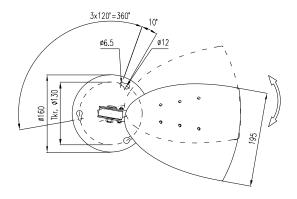
Ceiling mount

Side view



Rear view

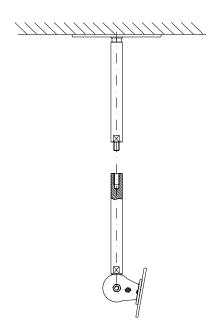


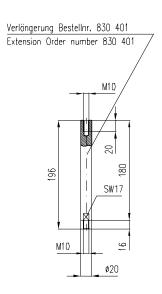


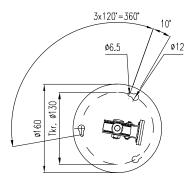


Ceiling mount

Seitenansicht / Side view



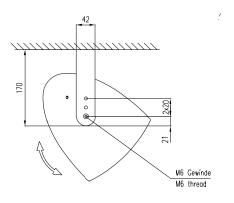


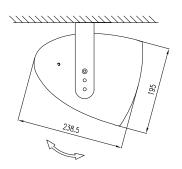




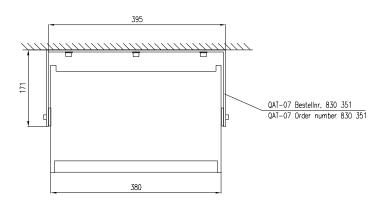
Horizontal mount

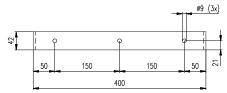
Side view





Front view







Premium 2-way passive speaker in design enclosure

Premium 2-way passive speaker in design enclosure, equipped with a 6,5" sub-mid speaker and a 1"- HF-driver on a revolvable CD horn in time-aligned speaker arrangement. The speaker is temporary able to work under 600 W and generates acoustic pressure of maximal 123 dB. In a wide frequency range of 65 Hz to 20 kHz, the speaker has a defined dispersion of 90° x 60° (h x v). High-tensile multiplex birch wood design enclosure with rounded sides, strutted with internal metal brackets to maintain safety instructions. Durable textured paint, available in black or white. Optional available in all RAL-colours or in precious black piano finish with premium chrome decoration. Optional available in weatherproof polyurethane-coating with impregnated speaker membranes. For the protection of the speaker chassis and the electronics, the enclosure is equipped with a ball impact resistant, extremely sound-permeable front grille, which is made of powder-coated steel and equipped with a moisture- and dust repellent acoustic foam in enclosure colour. Nine pieces M6 thread applications in ground, back and upper side are integrated to the admission of ring studs and system brackets. The loudspeaker system is optionally available with 100V technology in different performance classes up to 60 W. Connections: 1x Neutrik NL4 Speakon and internal fourfold terminal. Specific brackets to assemble the system on ceilings, walls and traverses are optionally available. Simulation data CAAD for ULYSSES and EASE are available.

electro-acoustical features

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components 6,5" / 1" on rotatable CD-horn,

with self-resetting Polyswitch-HF protection

power rating (nominal) 150 W
power rating (program) 300 W
power rating (peak) 600 W
sensitivity 96 dB
maximum SPL 123 dB
frequency range 65 Hz - 20 kHz

nominal dispersion (h x v) 90° x 60° nominal impedance 16 ohms

features

enclosure birch plywood designer cabinet, metal strengthened

protection grille ball impact resistant metal, powder coating

rigging points 9x M6 thread

connections 1x Neutrik NL4 Speakon and 4-pole connector inside

standard colours textured finish black or white

frontal design acoustic foam, same colour as enclosure

dimensions (W x H x D) 195 x 380 x 230 mm

weight^[7] 7 kg

optional features

integrated 100 V-transformer 60/30/15 W optional colours all RAL-colours

special finishes piano lacquer black, chromium-plated trim

weather protection scratch-proof plastic coating, impregnated speaker membranes

CAAD simulation data ULYSSES, EASE

Make Fohhn Audio AG

Type AT-07

SOUNDS PERFECT. IS PERFECT.

Fohhn audio systems. The ultimate all-round audio experience.























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