



AMINA

DATASHEET Revision 1.7

SAPPHIRE Series 375

TWIN DRIVER, 75W RMS HIGH PERFORMANCE
FULLY COVERED INVISIBLE LOUDSPEAKER



INVISIBLE FULL-SPECTRUM SOUND

The Sapphire375 represents the culmination of over 25 years of pioneering research and development in Distributed Mode Loudspeaker (DML) technology. At its core lies our revolutionary LowFreq™ driver, meticulously engineered to deliver extraordinary bass response that eliminates the need for a additional bulky subwoofers. The result is a truly full-range invisible speaker that produces powerful, articulate bass while maintaining crystal-clear midrange and high-frequency detail. This remarkable achievement integrates seamlessly with our precision crafted aluminum frame and proprietary Symphony Cell™ resin-impregnated composite soundboard-creating an invisible audio solution that defies conventional limitations while maintaining absolute visual discretion.

UNPRECEDENTED BASS

The Sapphire375 shatters preconceptions about invisible audio capabilities. Our groundbreaking LowFreq™ driver technology reproduces bass frequencies with an authority and precision previously unattainable in invisible speakers, achieving remarkable articulation and power. The sophisticated twin-driver architecture works in perfect harmony with our advanced composite soundboard to generate bass that's not merely heard but immersively experienced.

ACCOUSTIC WARMTH AND TRANSPARENCY

The proprietary Symphony Cell™ resin-impregnated composite soundboard creates a distinctly warm tonal signature while preserving exceptional detail. This unique material composition delivers harmonious, natural sound reproduction with remarkable midrange presence and smooth high-frequency extension. The result is an engaging, comfortable listening experience that maintains tonal accuracy without the fatigue often associated with conventional speaker designs, perfect for environments where audio quality and listener comfort are equally paramount.

ARCHITECTURAL INTEGRATION MASTERY

With a precision-engineered 34mm profile, the Sapphire375 integrates effortlessly between studs or joists on 400mm centers or greater, fitting into spaces where traditional speakers cannot be installed. This extraordinary dimensional efficiency, combined with exceptional acoustic performance, makes the Sapphire375 the definitive choice for environments where cavity constraints and aesthetic considerations are paramount.

FEATURES AT-A-GLANCE



75W RMS/150W PEAK

Providing a maximum sound pressure of 101dB SPL from 75W at six ohms



180° DISPERSION

Hemispheric dispersion throughout the speakers frequency range



SONIC CLARITY

Room-filling sound with full-range Hi-Fi voicing and impeccable intelligibility



ARCHITECTURAL ADAPTABILITY

Install in wall, ceiling or cabinetry and cover with almost any material



POWERFUL BASS

LowFreq™ driver technology delivers rich, deep bass without requiring a separate subwoofer

SAPPHIRE 375 SPECIFICATION

MEASURED AT 20°C WITH A 2MM PLASTER SKIM



NOMINAL IMPEDANCE	6 Ohms
SENSITIVITY	83dB (2.83V / 1m)
EQUIVALENT SENSITIVITY (WITH-OUT PLASTER)	89DB (2.83V / 1m)
RATED MAXIMUM SPL	101dB SPL
FREQUENCY RANGE (-10dB)	44Hz - 20kHz
FREQUENCY RESPONSE (-6dB)	50Hz - 20kHz
COVERAGE (H/V)	180°/180°
POWER HANDLING (RMS/PEAK)	75W/150W
RECOMMENDED HIGH PASS FILTER	30Hz, (24dB per Oct.)
ELECTRICAL CONNECTION	Wago Lever-Splice 16–10 AWG (1.5–6 mm²)
PRODUCT DIMENSIONS	450mm X 345mm X 34mm (17" ³ / ₄ x 13" ⁹ / ₁₆ x 1" ¹ / ₄)
PRODUCT WEIGHT	1.6kg (3lb 8oz)

DRIVERS	2 x DML
VOICE COIL DIAMETER	1x 52mm, 1x 32mm
VOICE COIL CONDUCTOR	Quad Layer Wound Copper
SUSPENSION DESIGN	Engineered Spiderless Coupler
DIAPHRAGM DESIGN	Bending Wave Principle
DIAPHRAGM MATERIAL	Phenolic Honeycomb
RADIATOR SURFACE AREA	450mm X 345mm (17" ³ / ₄ x 13" ⁹ / ₁₆)
MANUFACTURER WARRANTY	10 Years
LOW-Z PROTECTION	Guardian 2/8/16
HIGH-Z TRANSFORMER	Coming Soon
MOUNTING HARDWARE	CV345 Backbox / SW345 Backbox / Tab Mounting System
FIRE BARRIER	Firehood 345

REFERENCE APPLICATIONS

The Sapphire375 excels in environments demanding reference-level audio performance with zero visual compromise:

MUSEUM-QUALITY RESIDENCES: Delivers exceptional audio in architecturally significant spaces where visible speakers would detract from meticulous design.

LUXURY HOSPITALITY: Creates immersive audio experiences, without 'hot-spots' in prestigious hotels, restaurants, and spas while maintaining design purity.

CINELOUGE: Enables full-range multichannel audio systems to create an invisible cinema, in your lounge.

SUPERYACHT INSTALLATIONS: Offers marine-grade performance that maximizes space and weight efficiency while meeting the most demanding acoustic standards.

LIMITLESS AESTHETIC APPLICATIONS

The Sapphire375 represents the pinnacle of invisible audio integration, completely disappearing behind your chosen finish while delivering extraordinary sound. This revolutionary approach creates unprecedented design freedom with compatibility spanning:

ARTISANAL PLASTERS: Venetian, lime, clay, polished, and specialized spray-on finishes

PREMIUM NATURAL MATERIALS: Book-matched marble, exotic hardwoods, fine leathers, and natural stone veneers

ADVANCED COMPOSITES: Engineered stone, micro-cement, Corian, and Dibond mirror-finish panels

DESIGNER SURFACES: Custom wallcoverings, textured finishes, and architectural specialty materials.

SYSTEM PROTECTION & INTEGRATION

All Amina low-impedance loudspeakers require effective protection from being overdriven to qualify for our 10-year warranty. We recommend using Amina's Guardian protection devices in-line between your amplifier and loudspeaker for optimal performance and longevity.

Comprehensive installation instructions, training resources, CAD files, and application notes covering various finishing materials are available at aminasound.com. Our support team is always available to provide guidance for challenging installation scenarios.



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