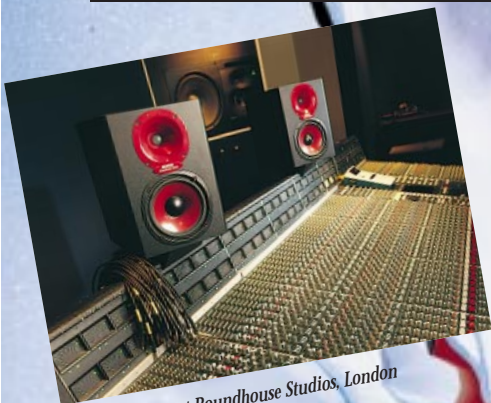


Absolute Zero

COMPACT PROFESSIONAL MONITOR SYSTEM



Absolute Zero at Roundhouse Studios, London

SPIRIT
Absolute Zero

SPIRIT

APPLICATIONS

Any studio monitoring application

Video edit / post-production suites

Multimedia

Small venue sound reinforcement/distribution

Hifi/AV systems

DESIGN CONCEPT

Absolute Zero has been designed by audio guru Trevor Stride, the man behind the acclaimed Absolute 2 monitor.

Trevor has over 15 years of audio design experience behind him, working for a number of the industry's leading names, including SSL and Focusrite.

Trevor's design philosophy behind the Absolute Series is deceptively simple:

- *Any professional monitor should exhibit an even frequency response at high and low levels, on and off axis;*
- *it should have the most natural, uncoloured sound possible, whatever the price level;*
- *it should not exaggerate or enhance sound;*
- *it should not cause listening fatigue (often arising from the inappropriate use of driver materials that produce spurious resonances masking the monitor's true sound);*
- *it should be reliable in prolonged, professional use.*

To satisfy these criteria, Trevor has scrutinised every element of Absolute Zero's design to optimise its performance.

The sturdy, vented cabinet design complements the 170mm low-frequency driver to give smooth, extended bass response and the soft-dome tweeter is mounted in a proprietary waveguide to ensure controlled dispersion.

In the tradition of all good monitors, the wide frequency response remains even at all listening levels, both on and off axis - so you can be assured of consistent, dependable results every time. Furthermore, special attention has been paid to the impulse response of the system in order to give the most natural, uncoloured sound possible.

Absolute Zero offers superb all-round performance, is remarkably versatile and comes at a price that is truly affordable.

<http://www.spirit-by-soundcraft.co.uk>

SPIRIT

THE MAIN FEATURES

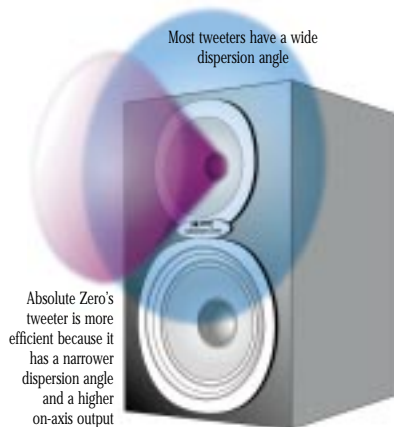
- High definition Linear Phase design
- Flat on and off axis frequency response
- Wide, controlled dispersion
- CAD optimised, low loss crossover
- Custom designed drivers
- Long throw 170mm LF driver
- 25mm soft dome HF unit on proprietary waveguide
- Ported cabinet for extended LF response at all listening levels

USING ABSOLUTE ZERO

The in-line driver array, with its wideangle tweeter, means that Absolute Zero may be used horizontally or vertically. With flat response up to 30° off-axis, speaker angle is less critical than with many monitors. In addition, the rear-ported design not only makes for a smaller front baffle area but also allows the speaker to be used in mid-room positions.

Absolute Zero is rated at 95 Watts RMS but its high quality design permits the use of more powerful amplifiers, albeit with caution.

The sturdy, recessed binding posts will accept bare wires, 4mm 'banana' plugs or 6mm fork terminals.



CONTROLLED DISPERSION

Accurate monitoring is all about hearing a faithful rendition of your programme material. But sometimes your judgement can, quite literally, be 'coloured' by the environment in which you're working. High frequencies from wide dispersion tweeters can reflect off nearby surfaces, creating unwanted echoes. In imperfect or untreated acoustic environments, it is useful to control dispersion.

Absolute Zero's controlled dispersion of high frequencies means you hear more of your music and less of your room.

THE INSIDE STORY

The Tweeter

Absolute Zero's tweeter is a custom-designed **catenary-profile soft dome unit** which exhibits all the extended high frequency characteristics of standard metal dome tweeters, without sharing any of their harshness. The tweeter is recessed to help protect it from surface impacts.

The Bass Driver

Absolute Zero uses a new 6.5"/170mm bass driver with a 30mm voice coil, providing extended bass response with high power handling capability.

The Waveguide

Absolute Zero's proprietary waveguide serves to "time-align" its tweeter with its bass driver, and to restrict the tweeter's dispersion to a 90° angle. This reduces cabinet-edge diffraction and the risk of acoustic feedback in sound reinforcement applications, whilst increasing high frequency power handling.

The Port

Many monitors utilise deep port designs positioned **at the front** of the cabinet, which can cause mid-range response to vary by as much as 6dB. Absolute Zero's deep port is rear facing, guaranteeing midrange consistency.

The Cabinet

Many small cabinet speakers suffer from diffraction problems in the upper-mid frequencies caused by sharp vertical edges. In contrast, Absolute Zero's vertical edges are contoured to minimise diffraction from reflected sounds.

The Connectors

Poor quality connectors are often the weakest link in the signal path, reducing signal quality from amplifier to speaker. Absolute Zero uses only top-grade gold plated binding posts which give better contact for many years.

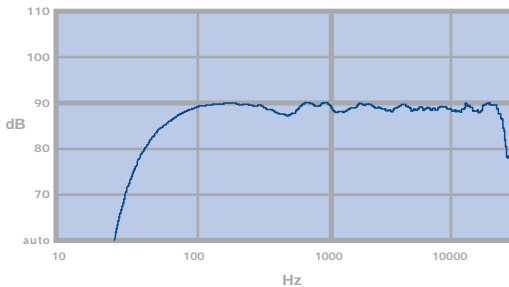
Custom Components

Many of Absolute Zero's components, including its tweeter and bass driver, are exclusive to Spirit to ensure that performance is not compromised by the use of off-the-shelf designs.

SPECIFICATIONS

Power handling (typical music signal content):	95 Watts RMS
Frequency response (half space on axis):	55Hz - 18kHz, +1/-3dB
Impedance:	8 Ω nominal
Crossover (4th order acoustic Linkwitz-Riley):	2.5kHz
Sensitivity (half space):	89dB/2.83V/1m
Driver complement:	170mm LF/25mm HF
Dimensions (HxWxD):	320 × 230 × 290mm 12.6 × 9 × 11.4 in
Weight:	11kg (24lbs) per pair

E&OE. Spirit by Soundcraft™ reserves the right to alter designs or specifications without prior notice



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