11/2013 www.audio.de Deutschland 6,-€ HIFI · SURROUND · HIGH END · MUSIK

BOXEN

Manger Sterne in greifbarer Nähe **Sonus Faber** Olympica – göttlich schön **Tannoy** Kensington GR – die Palast-Revolution **Gauder** Bestnoten in Mathe und Musik

Aktiv-Sensation

Nubert nuPro A300 für 1050€: Kompakt, volldigital, DSPentzerrt, linear bis 32 Hz!

Geheimtipp aus Frankreic

TotalDAC mit diskretem Wand Röhren und Lautstärkeregelung









It comes from Renningen. With its elegance, this slender column from the Swabian region of Germany will also fit perfectly well in any big city setting. A question comes to mind. Is there really any reason for further discussion about preferentially buying loudspeakers from a local manufacturer?

■ Reviewer: Stefan Schickedanz

under his own name, Dr. Roland Gauder's phragms (LF and/or mid/bass drivers) of oudspeakers bear testimony to two identical diameter. things that distinguished the work of this The enclosures are tapered toward the Swabian physicist even under the old na-rear, and have uniformly curved side me: expertise and attention to detail. walls. This construction offers both an Because this combination resulted not acoustic and a visual benefit. They are only in a lot to celebrate, but also in high clad in perfectly finished white lacquer, prices, the Arcona Series was introduand and are eye-catchers from every angle. ced somewhat less than a year ago to And as all technically astute readers address the lower tier entry level mar- know, the use of non-parallel walls leads

This should of course all be seen as so- waves inside the cabinet. brand positioning.

Acknowledging that, we received the gnificent housing is itself loatop model in the series for review, the ded with magnificent dri-Arcona 100--but not totally as a blank vers. sheet of paper. For the first time in his designs, Dr. Gauder selected an Air Mo-

ROLAND RESEARCH: Dr. Gauder's personally 'christened' XPulse cone drivers rely on a composite diaphragm consisting of aluminum with a rear polymer layer for fast impulse response. Extremely steep 50 dB per octave slopes prevent out of band resonances from affecting the music in critical frequency ranges.

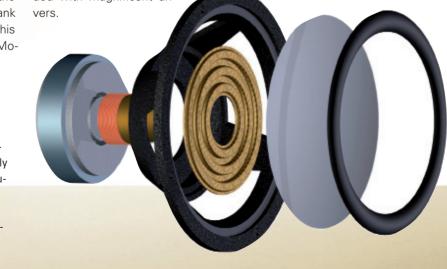
hile the Isophon brand is histotion Transformer as his high frequency ry, the spirit lives on. And how! driver. In the Arcona Series it is used in Designed and now marketed conjunction with up to three XPulse dia-

to a greater immunity from standing

mewhat relative--the Gauder Akustik Elaborate bracing within the enclosures brand traditionally being associated with makes the 22 mm thick MDF panels higher four figure prices. While Dr. Gau- even more rigid. The teardrop shape, der is no doubt mindful that his terrain curved to the rear, and the rounded corusually begins where others give up and ners reduce unwanted reflections and leave off, the Arcona 60 and 80 have al-diffraction effects. And a downward fiready proven in tests that they are extre-ring bass reflex duct was designed to mely valid products in terms of intra- avoid port noise and the muddying effects that it could generate. And the ma-

EVALUATION A HIGH-END LOUDSPEAKER FROM **GERMANY** GAUDER ARCONA 100 5800 €/PAIR





LOUDSPEAKERS FOR LIFE





GAUDER AKUSTIK gehört im Lautsprecherbereich weltweit zu den Premium-Herstellern. Alle Lautsprecher werden im Werk in Renningen gefertigt - von Hand! Jede Lautsprecherbox wird nicht nur vermessen, sondern auch einem Hörtest unterzogen. Ein hangeschriebenes Zertifikat verdeutlicht dieses Bekenntnis zur Fertigungsqualität "Made in Germany". Klanglich setzen die Lautsprecher von GAUDER AKUSTIK dank ihren überlegenen Technologien die Trends von morgen: "so viel Klang gab es noch nie fürs Geld" (Audio 1/2013). Überragende Testberichte sowie nationale und internationale Auszeichnungen bescheinigen die Spitzenposition des schwäbischen Unternehmens - und das im Preisbereich von 2.000,-Euro bis hin zum Spitzenmodell, der BERLINA RC 11, um 150.000,- Euro. Mehr Infos unter www.gauderakustik.com

Loudspeakers > FLOORSTANDERS

The Air Motion Transformer, based on and developed in accordance with the principles set forth by Dr. Oskar Heil, utilizes a wafer-thin foil membrane in which there is practically an inertia-less distribution of energy over the entire surface. As such, the AMT responds so quickly to impulses that it is no longer audible as a working transducer. With this, however, other problems automatically arise. Ultimately there is the challenge of a seamless integration with midrange and bass drivers—drivers whose substantial moving mass and heavier surface areas are acoustically more difficult to hide.

High-end ceramic drivers blend nicely but at a very high price. In the Arcona, Gauder employs one 17 cm (XPulse) driver for the midrange, and two additional 17 cm drivers for bass. There is substanprotective plates to prevent scratches) tial mechanical driving force for each dri- Gauder leaves the fine adjustments to

Under these circumstances, and in this metal spike available at an extra charge). instance, they succeeded. A unique alu- But there are far more compelling reaminum-plastic composite structure (massons to want the Arcona 100. When our ternal damping) proves to be quite unob- Allgemeine Zeitung) praised it as a 'live

In contrast to the smaller floor standing Renningen took off like a fire brigade. Arcona speakers described as 2.5 way
The Air Motion Transformer itself besystems, the Arcona 100 is a true three- haves truly like air and love—the opposiway design, in which the bottom two dri- te of outdated HF drivers, which bevers share the bass workload. In either cause of intrinsic shrillness encourage case or in both. Dr. Gauder worked in a vou as a listener to turn the music off. collaborative effort with his Arcona col- The combination of spontaneous pulse leagues using 'all the rules of the art' to response and the complete fusion of the finalize his designs.

also been known to resort to drastic bass—bass that is palpable but not overmeasures. The keyword in this case is 'slope.' Through brilliant crossover calculations and mechanical measurements of both driver and cabinet parameters, The combination of a high AK level of 77 slopes of about 50 dB per octave. In a world where fourth order filtering and 24 dB slopes are accepted as valid, and okay with the audio establishment, Dr. Gauder-the 'Rebel from Renningen'-has staked his claim to a radical position. He is also one of the few designers in the world who understands phase shift and how to compensate for it in advance with proven corrective measures.

With conical spikes as feet (used with

GAUDER ARCONA 100 5800 EURO/PAIR

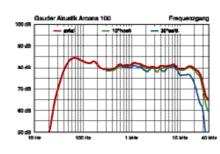


its customers (there is even a deluxe ximum stiffness combined with high in- colleagues at the F.A.Z. (the Frankfurter experience', these loudspeakers from tonal range—from the delicate and spar-And when he had to, Roland Gauder has kling to the deepest cellar dwelling

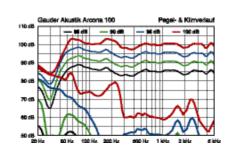
THE HEIL PROCESS: To ensure that Oskar Heil's concepts were realized, a Gauder optimized AMT tweeter is used with specially designed XPulse bass and mid/bass drivers. These drivers are rigid low mass aluminum/polymer composites--to blend and work safely with Heil's HF driver technology. The result, among other things, is superb musical pacing.



Dr. Gauder--as a physicist--decided on and the low efficiency of 80.2 dB speak unequivocally to the need for a powerful and stable amplifier. There is a slight emphasis in the entire bass region, but the low cutoff frequency of 39 Hz (-3 dB) is impressive,



and revealed in the overall frequency response. The decay spectrum shows a rapid fall-off of resonances, particularly in the mid to high frequencies. Here the Arcona exhibits impressively low distortion as it reaches its limit of 98 dB.





with the Arcona.

German companion—with its homogeneity and impulse response, and the powerful vacuum tube Westend Monaco, played music beautifully with the Ar- **CONCLUSION** cona 100, the otherwise excellent € 550 Marantz PMA-6005 shut down prematurely due to early activation of its protection circuitry.

There is a bare honesty, a naked openness, that we can ascribe to the Arcona l've always found the AMT driver 100. While a challenge to any amplifier, to be good. My issue up to now there is a seductive delicacy to the repro- has been the integration of this duction of instruments and voices. The- leading edge driver with convenre is a high degree of transparency, at- tional drivers in conventional catack, a harmonic resolution of overtones, binets. Not so with Arcona. Not and all without the least bit of hardness. To round out the wonderful listening ex

emphasized—is a rare treat. Fragile amperience, the Arcona also displayed, and plifiers, however, should not be used staged, an elusive but absolutely alluring presentation of depth and three dimen-While the superb T-A PA 3000 HV--as a sionality.



Stefan Schickedanz

only a perfect design, but its finish contributes to its allure.

GAUDER THAN ANYTHING: Gauder

Akustik's approach is totally in contrast with what is currently in voque in audio gentle and seemingly innocuous 6 dB slopes. Instead they rely on clear separation and 50 dB slopes, mostly achieved by brilliant and precise calculations.

Loudspeakers > FLOORSTANDERS

PROFILE

	GAUDER AKUSTIK
	ARCONA 100
Manufacturer	Gauder Akustik 0 71 59 / 92 01 61
/ww.	gauderakustik.com
uggested list price	5800 Euro / pair
Varranty	10 years
imensions	21cm W x 114 cm H x 39 cm D
Veight	29 kg
eal wood / lacquer	•/-/•
olors and finishes	Piano finish white or black lacquer. Cherry.
coustic design	3-way bass reflex
oom adjustment	_
pecial Features	WBT NexGen terminals

LISTENING IMPRESSIONS

trum, temporally perfect and well integrated, very large

	stage. I	Highly detailed.
utrality (2x)	100	
solution of Detail (2x)	105	
aging	95	
ee dimensionality	95	
cro dynamics	100	
ximum level	95	
ss quality	90	
ss tightness	95	
rkmanship	Outstanding	
SOUNDVERDICT LUE FOR MONEY	98 PUNKTE EXCELENT	
	LAULL	

