





**Tofana –
On The Way to Ultimate Sound**

Building a reference speaker which sets new standards in sound and performance was the ambitious goal we set us when planning the design of the Tofana. We didn't care about loudness – a big speaker is certainly able to play loud – we laid our focus on the reproduction of details, spatial imaging, transparency and of course on naturality. So we now introduce the Tofana – and we are proud of it!

Why has the Tofana a better performance than all speakers we know? This is what we show and explain you on the following pages.



Easy Equalization

The bass response in any room depends on room size, geometry, loudspeaker placement, listening position and the taste of the listener. You see these are a lot of variables which cannot be fulfilled in a perfect way by a universal tuned bass response. You need adjustment possibilities. The Tofana therefore owns a three-fold room equalization set-up by simply plugging a gold-plated bridge into the adjustment sockets. You can choose -1.5 dB, linear response and +1.5 dB. As in echoic listening rooms the highs can get sharp due to multiple reflections from floor, ceiling, walls and windows the highs are also adjustable by such a bridge very easily.



Very important for all users: The three-position room equalization system placed on the name-plate at the rear of the Tofana is easily accessible for quick bass adjustment. The high quality binding-posts of WBT enable a lossless connection to your amplifier. As the Tofana has a bi-wiring-terminal you can use a bi-wiring cable or bi-amp it.





“The Isophon Tofana offers you a dynamical range that makes you believe classical music from LP or CD is performed live.”

Dr. Roland Gauder, Chief-Designer Isophon

The Drivers

There are many materials for loudspeaker diaphragms but there is no one like ceramics. No other material has such a lot of positive properties for radiating sound. Ceramic diaphragms are hard, stiff and light and have practically no intrinsic sound. Due to weight and stiffness they are able to follow even explosively rising impulses without delay and therefore sound transparent, open and very dynamically. And they only produce very low distortions, most of them showing themselves out of the passband. And our sophisticated, unique crossover technology eliminates them completely.

The Cabinet

Every loudspeaker cabinet has more or less a deep influence on the radiated sound – some frequencies are amplified, some are suppressed and dynamics is often reduced strongly. All these effects lead to coloration of sound and loss of details. Also bass changes the sound of the midrange and tweeter. Therefore the Tofana consist of two totally separated and decoupled cabinets. The walls of the woofer cabinet consist of three thick layers which are bent and glued together and show hardness and stiffness. Additionally each sidewall is filled with quartz-sand inside thus dampening low resonances and sound

spreading. In contrary the midrange-tweeter-unit is filled with cast resin too be extremely hard which results in a very dynamical response. So due to the bent shape and additionally stiffening and lining inside the Tofana features extreme efforts to reduce all different effects of cabinet influences on sound. You will hear it immediately!

Tofana is manufactured and handcrafted with great care in our facility in Renningen/Germany. So extra request are possible. You can order your Tofana in piano high-gloss black, piano high-gloss white or any other color due to the German RAL-chart.



Perfect drivers:

The ceramic woofer of Accuton controls all excursions for the diaphragm by its big magnet, the low-resistance basket with its stiff small ribs conserves dynamics and provides the tight bass. The midrange driver has an overdimensional magnet for accelerating the diaphragm without any loss compared to the signal. This results in an unbelievable resolution and richness of details and sound colors.



Diamond or ceramic tweeter

This choice is up to you. If you start with the fantastic ceramic tweeter you can upgrade your Tofana to diamond at any time at home as we provide every speaker with all necessary upgrade preparations. So you can decide when you are prepared to hear the best tweeter in the world – the Accuton diamond.

If there are any other questions not answered by this brochure please contact us at any time by mail: info@isophon.de

We are looking forward to your inquiries.

Technical Specifications

Woofers:	3 x 9"
Midrange:	1 x 7"
Tweeter:	1 x 3/4"
Bass principle:	Symmetrical triple-bass-reflex system of 12.th order, high-pass filtered
Crossover frequencies:	180/3200 (Hz)

Impedance:	4 Ohms
Sine power:	480 Watts
Impulse power:	790 Watts
Height:	56"
Width:	12.5"
Depth:	22"
Weight:	220 lbs.

Frequency Crossover

Due to the high speed of sound ceramics show bad resonances only at very high frequencies which can be eliminated by a high-performance frequency crossover. "High performance" means that the crossover has a very high slope to eliminate all the otherwise occurring distortions. Therefore we have developed frequency crossover filters which have a slope of more than 50 dB/octave (e.g. a usual frequency crossover of first order which are

used by many manufacturers only show a slope of 6 dB/octave). This ultra-high slope also reduces distortions as all drivers only have to work at frequencies they are really designed for. In fact this also increases the power capability and dynamics. With such a configuration it is easily audible that different types of crossover components sound different even though they have the same physical value.

Only the highest quality components find their way to be used in Tofana's frequency crossover. All components were selected by long listening sessions and guarantee an unforgettable musical experience for a long, long time.



The Entire Device is More than Its Single Parts

A reference speaker like the Tofana easily shows its listener that different crossover components alter the sound in a certain way. E.g. an electrolytic capacitor sounds different than a silver-oil foil capacitor. In the design process of the Tofana we have tried so many different types of inductors and capacitors. We searched for harmony between these individual sound components. You can always judge a speaker by certain characteristics but by

the Tofana we always looked for the overall emotional balance which makes music worth listening and is responsible for the deep emotions we have. In the end we all find that the Tofana plays extremely close to the original creating realistic sizes of instruments and voices and opening a deep and wide stage. You just have to close your eyes to be led into this world.