

WHARFEDALE Diamond 12.C Walnut Pearl Centralni zvučnik

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Since

1982, Wharfedale's famous Diamond speakers have served as the classic entry point to true high-fidelity sound, their exceptional sonic value for money earning numerous 'product of the year' accolades in the UK and around the world. This autumn, with the introduction of the all-new Diamond 12 Series, Wharfedale once again raises the bar for affordable, high-performance loudspeakers.

To develop the new range, Wharfedale has collaborated with world-renowned speaker designer

Karl-Heinz Fink for the first time. Fink's track record of delivering class-leading sound from modestly priced speakers is exceptional and with the Diamond 12 Series, he and Wharfedale's team of acoustic engineers have achieved a new entry-level benchmark.

Wharfedale determined that the Diamond 12 Series should be an opportunity to start afresh. A challenge was issued to Mr Fink: how much sonic performance can you wring from a range of speakers at classic Diamond price points? And so, he and Wharfedale's team set to work, delivering clean-sheet designs without a single part unaltered from the outgoing - and more costly - Diamond 11 Series.

Klarity - The Difference is Clear

**Klarity
- The
Difference
is Clear**

Since
the
Diamond
8 Series
in 2001,
Wharfedale
has
made
the
mid/bass
cones
for every
Diamond
generation
from
Kevlar.
19 years
and
many
award-
winning

ranges
later,
Wharfedale
has
developed
a new
composite
called
Klarity™.

The
chief
ingredient
of
Klarity™
is
polypropylene,
a
material
that has
been
used to
make
speaker
cones
since
the BBC
researched
its use
for this
purpose
in the
1970s.

Polypropylene
cones
are
renowned
for their
characteristically
low
distortion
and
controlled
'breakup',
as well
as their
resistance
to
moisture
in the
air. They
also
have a
reputation
in some
quarters
for
sounding
a little
'unexciting'
- a
perception

that is largely the result of Bass/Mid Drivers. Cone Surround, Magnet and Voice Coil mediocre engineering. Bass/Mid Drivers. Cone Surround, Magnet and Voice Coil When designed - Cone and Surround, optimally, and polypropylene cones can sound In the enthralling past, polypropylene cones have often been combined with high-damping surrounds to achieve a smooth response curve. However, the hysteresis of these surrounds can restrict dynamics and make bass sound a little 'soft'. For the Diamond 12 Series, the aim was to combine the Klarity™ cone with a low-damping surround, thereby

achieving both low colouration and expressive dynamics. This was not a simple task but, by simulating many different cone shapes and adding ribs to provide further stiffening, a flat response curve was achieved without resorting to a high-damping surround, thereby striking the ideal balance.

The Klarity™ diaphragms are driven by a substantial, precision-made magnet system with an aluminium compensation ring to minimise the effect of variations in inductance as the voice coil

travels.
This
contributes
to an absence of distortion and intermodulation generated by the motor system. The voice coil is wound on a high-power epoxy/glass fibre bobbin - highly unusual in speakers at this price level. This has the advantage of not adding eddy currents and delivering greater power handling than an aluminium bobbin, whilst also being much stiffer than the Kapton type. The sound in the Treble Unit and Crossover is generated by the Diamond 12 Series' treble unit sports a 25mm dome made from a woven polyester film with a high-loss coating to deliver open and smoothly extended high frequencies. The magnet system and the front plate have been optimised for wide dispersion and uncompressed behaviour. The front plate is flat and exposes the dome as much as possible, with a short duct to

balance
the
acoustic
load and
improve
the SPL
(sound
pressure
level)
measurement.

The
treble
unit
combines
seamlessly
with the
mid/bass
driver
via a
crossover
network
using an
acoustic
LKR
24dB
topology.

This
includes
air core
inductors
of the
type
more
commonly
found in
high-end
speakers,
selected
because
they
produce
the
lowest
distortion
of all
inductor
types.

As the
resistance
of the
coil is
higher
than a
standard
laminated
steel or
ferrite
core
inductor,
the
magnetic

structure
of the
mid/bass
driver
has
been
modified
to
compensate
the
resulting
in fast,
clean
bass
with no
distortion
from the
inductor.

**Cabinet
Construction**

Speaker cabinet type unknown

The cabinet is a critical part of any high-performance loudspeaker. At entry-level price points, corners are often cut to constrain cost, but this is a mistake; no matter how good the drive units, their performance will be wasted if the cabinet's construction is suboptimal. For this reason, Diamond 12 Series speakers feature cabinets constructed with a level of sophistication usually reserved for much more expensive

designs. The rear-ported enclosure of each model is precisely sized so that the internal volume works in harmony with the drive unit system to deliver the desired sonic result.

The cabinet walls are made from sections of wood fibre board of varying thickness, constructed in such a way as to subdue the identifiable characteristics of the cabinet's 'sound' and ensure the drivers' output remains unsullied. The resonant properties of each element - even the glue - were

considered to determine the ideal combination of materials and placement. Inside the cabinet, Intelligent Spot Bracing connects opposing walls with a specific form of wood brace to achieve optimal reduction of cabinet resonance. These braces are precisely modelled by computer simulation to improve upon the commonplace 'figure of eight' brace, which can have the effect of transferring resonance from one wall to another.

Speaker type	2-way centre speaker
Enclosure type	Closed-box system
Treble driver	25mm textile dome
Mid/bass driver	130mm Klarity™ cone
Dedicated bass driver	N/A
Sensitivity (2.83v @ 1m)	90dB
Recommended amp power	20-120W
Peak SPL	96dB
Nominal impedance	8Ω compatible
Minimum impedance	4Ω
Frequency response (+/-3dB)	90Hz-20kHz
Bass extension (-6dB)	80Hz
Crossover frequency	2.2kHz
Dimensions (HxWxD)	180x480x180mm

Weight

8.5kg

Cene su informativnog karaktera. Prodavac ne odgovara za tačnost cena iskazanih na sajtu, zadržava pravo izmena cena. Ponudu za ostale artikle, informacije o stanju lagera i aktuelnim cenama možete dobiti na upit. Plaćanje se isključivo vrši virmanski - bezgotovinski.