

WHARFEDALE Diamond 12.1 Black Oak zvučnici za policu/stalak

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WHARFEDALE Diamond 12.1 Black Oak zvučnici za pol

Wharfedale's iconic Diamond lineage of high-performance, high-value speakers sparkles brighter than ever with the all-new Diamond 12 Series. 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**

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
mediocre
engineering.
When
designed
and
implemented
optimally,
polypropylene
cones
can
sound
enthraling.

**Bass/Mid
Drivers
- Cone
Surround,
Magnet
and
Voice
Coil**

In the
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.

Treble Unit and Crossover

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, resulting in fast, clean bass with no distortion from the inductor.

Cabinet Construction

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 standmount
Enclosure type	Bass reflex
Treble driver	25mm textile dome
Mid/bass driver	130mm Klarity™ c

Dedicated bass driver	N/A
Sensitivity (2.83v @ 1m)	88dB
Recommended amp power	20-100W
Peak SPL	96dB
Nominal impedance	8Ω compatible
Minimum impedance	4Ω
Frequency response (+/-3dB)	65Hz-20kHz
Bass extension (-6dB)	60Hz
Crossover frequency	2.6kHz
Dimensions H x W x D in mm	312 x 180 x 250
Weight (each)	6.8kg

