

# WHARFEDALE Diamond 12.1 Walnut Pearl zvučnici za policu/stalak

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WHARFEDALE Diamond 12.1 Walnut Pearl zvučnici za

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.

|                        |                   |
|------------------------|-------------------|
| <b>Speaker type</b>    | 2-way standmount  |
| <b>Enclosure type</b>  | Bass reflex       |
| <b>Treble driver</b>   | 25mm textile dome |
| <b>Mid/bass driver</b> | 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

