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## WHARFEDALE Diamond 12.C Walnut Pearl Centralni zvučnik

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Kategorija proizvoda: Centralni Zvučnici

Proizvođač: Wharfedale

**Cena: 29.880,00 rsd**

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.

WHARFEDALE Diamond 12.C Walnut Pearl Centralni zvučnik  
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

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

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

### **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

**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 the 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 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