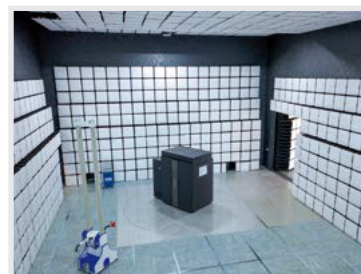


HyPyr-Loss™

Ultra Broadband Absorbers - UHC Series



SOLUTION FOR

- Antenna Measurement Chambers
- EMC Chambers used for MIL-STD-461 and some ETSI and CISPR25 applications
- Combination EMC/Antenna measurement facilities
- EMC Floor treatment for SVSWR

Main features

- Excellent broadband performance
- High uniformity and isotropy
- Repeatable and accurate results
- Clean-room compatible
- Durable and long-lasting (up to 35 years)

Product configuration

Shape

- Broadband Pyramid Absorber

Material

- Polypropylene

Frequency bands

- From 80 MHz to 40 GHz

Standard base size

- 1.97' x 1.97' (60 x 60 cm)

Height

- 10 cm, 20 cm, 30 cm, 50 cm & 75 cm

Operating conditions

- Temperature: up to 90° C

Indoor/outdoor

- Indoor/Outdoor

MVG offers a full array of high-performance absorber materials specifically designed to meet the increased performance demands of today's RF measurement environments. The HyPyr-Loss™, UHC, product line includes a range of broadband absorbers that satisfy the requirements of antenna measurement facilities. In addition, these high-performance absorbers offer solutions for EMC applications particularly where higher frequency (1-40 GHz) optimization is required. Ask our design engineers to help you select the right absorber for your application.

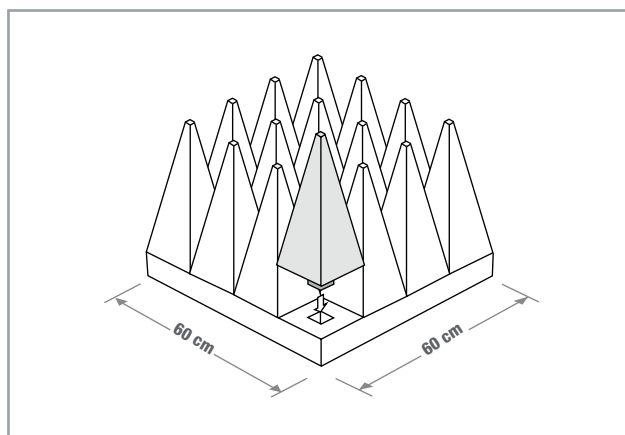


Broadband Absorber Technology

ULTRA UHC series polypropylene based Broadband electromagnetic absorbers are the latest technology for RF test applications. The polypropylene material has a highly uniform carbon density, throughout the material, which provides for more predictable results with no discontinuities. It is the unique production technology which is the critical factor in achieving the highest electromagnetic reflectivity performance in an RF anechoic test chamber. UHC series absorbers are accurately produced by using precise molding techniques that ensure all products have the same shape and size, which is a very important feature for fast installation and, a high-quality finish to the chamber interior. The UHC series includes several different model dimensions from 10 cm deep through to 75 cm deep. This enables optimized reflectivity performance for each area of the chamber with cost effective layouts. The UHC series provides an exceptional wideband performance for RF measurement Anechoic chambers in the frequency range from 80 MHz to 40 GHz and above.

ORDERING CODE

- UHCXX, where XX designates absorber height in cm.



The benefits of ULTRA UHC Polypropylene Absorbers

- Super Wideband Electromagnetic Absorber performance
- High Quality and cost effective
- Lightweight and Strong (maintains shape)
- Superior Product Lifetime (over 35 years)
- Optimum layout into corners with 10 cm & 20 cm absorber
- Impervious to Changes in Humidity (non-hydroscopic)
- Modular and Easy to Install
- Optimum Isotropy (uniformity in all orientations)
- Extremely Low Maintenance
- Eco-friendly Green Products

Specifications

| | | UHC30 | UHC50 | UHC50TR | UHC75 |
|----------------------------------|-----------|----------------------------------|-------|---------|-------|
| Height | cm | 30 | 50 | 50 | 75 |
| Absorption @ Normal Incidence | @ 80 MHz | 1 | 4 | 6 | 10 |
| | @ 100 MHz | 2 | 7 | 12 | 17 |
| | @ 300 MHz | 19 | 30 | 22 | 30 |
| | @ 500 MHz | 28 | 37 | 22 | 37 |
| | @ 700 MHz | 33 | 38 | 23 | 38 |
| | @ 1 GHz | 35 | 40 | 23 | 40 |
| | @ 3 GHz | 40 | 40 | 30 | 45 |
| | @ 6 GHz | 40 | 45 | 33 | 45 |
| | @ 10 GHz | 40 | 45 | 26 | 45 |
| | @ 13 GHz | 40 | 45 | 25 | 45 |
| | @ 18 GHz | 40 | 40 | 25 | 40 |
| | @ 40 GHz | 40 | 40 | 25 | 40 |
| RF Power handling | | 1.5 kW/m ² or 750 W/m | | | |
| Weight | kg | 2.84 | 3.89 | 4.17 | 5.46 |
| No. of Pyramid points | | 36 | 16 | 9 | 9 |
| Fire retardancy | | DIN4102 Class B2, UL94HBF | | | |
| Clean room standard | | ISO14644 Class 4 | | | |
| UV certification | | ISO 4892-2:2013 | | | |

Product note: We offer 10 cm & 20 cm deep absorber models for corner optimisation and general application. The 10 cm deep model is offered in 30 cm x 30 cm base footprint size and 60 cm x 60 cm. The 20 cm material is available in the 60 cm x 60 cm base size.

Walkaway absorbers and White reflective caps are also available.



Contact your local sales representative for more information
www.mvg-world.com/absorbers
salesteam@mvg-world.com