



COMMScope®

SD-003UV

Static Desiccator with UV Filter

Orange desiccant turns green when wet.

Description:

The SD-003UV Static Desiccator with UV Filter is a compact and economical device which eliminates moisture in small transmission line/ antenna systems. The unit has no moving parts, yet it can provide many months of protection for small ESA and small aperture microwave antenna feeds. The Static Desiccator with UV Filter is a disposable unit. When the desiccant becomes saturated, you simply replace the entire unit. Typical service life in a system, experiencing temperature change of 30°F per day, is one year. (See chart for volume limits)

The Static Desiccator with UV Filter mounts directly to any convenient pressure inlet having a 1/8 NPT female fitting. Mount it in a location that is easily accessible for replacement. Do not mount with inlet fitting facing down, mount with inlet fitting up or sideways.

The desiccant chamber is a translucent plastic allowing visual inspection of desiccant saturation. Dry desiccant is orange in color. As the desiccant adsorbs moisture, the color turns green. When the desiccant turns green, replace the Static Desiccator with UV Filter.

Applications:

In general, one unit is recommended for feed and combiner. Gas inlet flanges are not included with the Static Desiccator with UV Filter. As a reference, a 4.5 m ESA feed horn and combiner has a volume of 2.8 l (0.1 cu ft).

Microwave Applications:

Ideal for rooftop applications at any frequency with waveguide up to 3 m (10 feet) in length.

ESA Applications:

Typical applications are shown in the table. The recommendations are for antennas without air dielectric feeder systems (e.g., connected using foam-dielectric cable or having radio equipment mounted directly to the antenna hub). Actual requirements should be based on total system volume.



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SD-003UV Static Desiccator with UV Filter

Antenna Configuration:

(With 2-port combiner. Includes 3 ft of cross axis TX waveguide)	SD-003UV ≤ 1.0 ft ³
Feeds and very small systems	■
Ku Band: 7.6 m or smaller	■
C Band: 7.3/7.6 m or smaller receive only	■
C Band: 4.6 m or smaller	■
C Band: 7.3 and larger receive/transmit	*

* For systems volumes over 1 ft³, use MR050 or MT050 series dehydrator.

Installation:

Apply Teflon tape to the male threads. Using a 1/2" wrench on the hex flats, screw the SD-003UV into the 1/8 NPT female pressure inlet until tight. Use a 9/16" wrench to tighten the ferrule nut to the SD-003UV, 30-40 in-lbs recommended. **Remove blue dot from the bottom of the canister.**

Characteristics:

	Dimensions		Net Weight	Shipping Dimensions	Shipping Weight	Temperature Range	Interface
	Diameter	Length					
SD-003UV	50.8mm (2 in.)	114.3mm (4.50 in.)	0.136 kg (0.3 lbs)	15.24 x 10.16 cm 7 x 6 x 4 in.	.861 kg 1.9 lbs	+49°C to -29°C +120°F to -20°F	1/8 NPT Male threads

Mounting Orientation



OK



OK



NOT RECOMMENDED FOR
OUTDOOR INSTALLATION