



## ZETA DEDUSTING RING LARGE LW500

For the extraction of dust when adding powdered ingredients in pharmaceutical plants

The dust extraction ring was developed for use in pharmaceutical production plants to eliminate the problem of dust around the filler opening when adding powdered ingredients by hand. The ring will also help to create a healthier working environment for your employees. The reduction of the dust load in the environment also means higher production efficiency and safety for the adding process. These are only a few of the compelling arguments for installing a ZETA dedusting ring.

### Function:

The underlying principle of the dedusting ring is a constant air curtain that is built up above the funnel due to the internal air channel and extraction openings in the ring. This prevents any dust that might blow back out of the vessel or funnel from spreading beyond the air curtain. Once the powder has been added and the dedusting ring removed, any dust deposits remain in the dedusting ring, as the extraction openings are located at the highest possible point on the extraction channels.



## Technical data:

### LW500

<b>Materials</b> <i>(conforming with FDA regulations and USP Class VI, certificate included)</i>	polypropylene 1,4305 for metal components
<b>Surface finish</b>	RA < 1,2 µm
<b>Colour</b>	transparent
<b>Outside diameter</b>	770 mm
<b>Inside diameter</b>	500 mm
<b>Height (without connector)</b>	115 mm
<b>Connecting piece (outside diameter)</b>	76 mm
<b>Weight</b>	8 kg



Dedusting ring on test bench

### Standard model:

The dedusting ring can be placed directly on the vessel or on an adapter funnel. This adapter funnel is made from stainless steel and can be flexibly adjusted to the specific opening of the vessel or any other conditions. Attaching and removing the dedusting ring is simple: The extraction hose can be plugged directly into the connecting nozzle without the need for any additional mechanical bracket.

The dedusting ring is also available in a special design for explosion hazard zones (zone 0).

The dedusting ring can be cleaned in an equipment washer. To do so the ring is dismantled into its three parts. All it takes is loosening six bolts to open the quick release clamps. Assembly and disassembly takes less than two minutes.

### SPARE PARTS AND EQUIPMENT

ZETA article no.	Quick-release device	Hode 5m
LW500	A100010	A500077



ZETA Dedusting Ring

### DEDUSTING RING – TECHNICAL DATA

ZETA article no.	Dust load	Standard volume flow	Vacuum at ring	Pressure drop ring	Acoustic pressure
		VO [m3/h]	p <sub>i</sub> [mbar]	[mbar]	[dB (A)]
LW500	extreme	450	32	15	75-85
	strong	370	15	9	71
	normal	300	7	7	62