



ZETA Dedusting Ring

## ZETA DEDUSTING RING

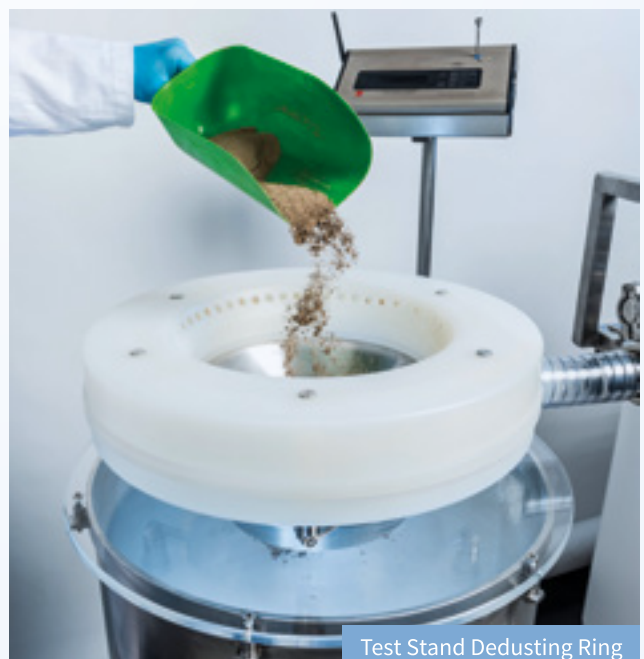
For the extraction of dust when adding powdered ingredients in pharmaceutical product factories.

This dust extraction ring was developed for use in pharmaceutical product factories to eliminate the problem of dust around the filler opening when manually adding powdered ingredients. The ring will also help to create a healthier working environment for your employees. A healthy working environment means less sick leave and therefore greater productivity, compelling arguments for installing a ZETA dust extraction ring.

### Function:

The underlying principle of the extraction ring is that via an internal channel with a sequence of extraction openings a constant air curtain above the funnel is created and 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 extraction ring removed, any dust deposits remain in the extraction ring, as the openings are located at the highest possible point on the extraction channels.



Test Stand Dedusting Ring

## Technical Data Dedusting Ring:

	LW260	LW500
<b>Materials</b>	Natural polypropylene or 1.4305 (conforms with FDA regulations and tested for compliance with USP Class VI, certificate included)	
<b>Surface finish</b>	RA < 1,2 µm	
<b>Colour</b>	Transparent	
<b>Diameter external</b>	477 mm	770 mm
<b>Diameter internal</b>	260 mm	500 mm
<b>Height (without connector)</b>	95 mm	115 mm
<b>Connecting piece (external diameter)</b>	50 mm	76 mm
<b>Weight</b>	4,1 kg	8 kg

### Standard Model:

The device consists of an extraction ring placed on a funnel. There are two ring sizes (LW260 and LW500). For the extraction of dust when adding powdered ingredients in pharmaceutical product factories we can, if necessary, adapt a stainless steel funnel to fit on to the connecting piece on the vessel and any other set-up.

When fitting and removing the extraction ring, the extractor hose attaches to the connector union without the need for an additional mechanical hose clamp.

**Dismantling time approx. 1 minute**

**Assembly time approx. 2 minutes**

The entire extraction ring can be cleaned in cleaning machines for pharmaceutical productions, as the ring separates into three parts when the six catches are removed by means of a quick-release device. On Belimed cleaning machines there is already a basket for the LW260 extraction ring.

### SPARE PARTS AND EQUIPMENT

ZETA item no.	Quick-release device	Hose 5 m
<b>LW260 (A100008)</b>	A100009	A500076
<b>LW500 (A100007)</b>	A100010	A500077

### DUST EXTRACTION RING – TECHNICAL DATA

ZETA item no.	Dust load	Standard flow volume	Vacuum at the ring	Pressure drop ring	Acoustic pressure
		VO	$p_i$		
		[m3/h]	[mbar]	[mbar]	[dB (A)]
<b>LW260 (106203)</b>	extreme	230	32	14	70
	strong	160	15	7	65
	normal	110	7	3	60
<b>LW500 (106202)</b>	extreme	450	32	15	75-85
	strong	370	15	9	71
	normal	300	7	7	62