



ZETA DEDUSTING RING MEDIUM LW270

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:

LW270

Materials (conforming with FDA regulations and USP Class VI, certificate included)	polypropylene
Surface finish	RA < 1,2 µm
Colour	white
Outside diameter	482 mm
Inside diameter	268 mm
Height (without connector)	89 mm
Connecting piece (outside diameter)	50 mm
Weight	2,1 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 by ZETA 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 three rings can be mounted and removed extremely fast thanks to the bayonet fitting that is easy to open and close.

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

The dedusting ring is designed for cleaning in an equipment washer. For cleaning, the bayonet catch is opened to dismantle the ring into its three components that are then placed into a suitable basket for standard washing procedure.



Assembly of the dedusting ring

DEDUSTING RING – TECHNICAL DATA

ZETA article no.	Dust load	Standard volume flow	Vacuum at ring	Pressure drop ring	Acoustic pressure
		VO [m ³ /h]	p _i [mbar]	[mbar]	[dB (A)]
LW270	extreme	230	32	14	70
	strong	160	15	7	65
	normal	110	7	3	60