

DELFIN · CYCLONES · PRE-SEPARATOR FOR FOOD CONTACT

Delfin ESD.SEP-0685

Filter-free cyclone pre-separator built for processes with food contact requirements. Chamber, container, lid and frame are all stainless steel. The cyclone separates more than 98 % of the material before the air reaches the vacuum unit's filter. 20 L collection, 20 kg.

- Separates more than 98 % of the material before the vacuum unit's filter
- Meets the requirements for materials in contact with food (MOCA)
- Chamber, container, lid and frame in stainless steel — the whole unit
- Only 20 kg with a 45 × 40 cm footprint — easy to move
- Substantially extends filter life on the vacuum unit it connects to
- No filter and no motor — connects to an existing vacuum unit



Delfin ESD.SEP-0685 stainless steel cyclone pre-separator for food contact

Cyclone >98 % · MOCA — food contact · CE — Machinery Directive 2006/42/EC · GMP compatible · Stainless steel

Quick facts

Type	Pre-separator
Cyclone	>98 %
Cyclone chamber	ø280 mm
Capacity	20 L
Inlet	3"
Outlet	Clamp 2½"
Construction	Stainless steel
Food contact	MOCA
Motor	None
Weight	20 kg

What is the Delfin ESD.SEP-0685?

The ESD.SEP-0685 is a cyclone pre-separator without a filter. It is fitted between the suction point and the vacuum unit and removes the bulk of the material before the air reaches the filter. It is a simple machine with a single purpose: to keep the material out of the filter.

What sets it apart from Delfin's other pre-separators is the construction. Chamber, container, lid and frame are all stainless steel, and the unit is built to meet the requirements for materials in contact with food. That makes it relevant in food production, nutritional supplements and other processes where contact materials are regulated.

Why a pre-separator pays for itself: filters are the largest running cost on an industrial vacuum. When the cyclone takes more than 98 % of the material, only the fine remainder reaches the filter. Filter changes become fewer, suction stays stable, and emptying is done from a container rather than from a clogged filter.

How it works

Material-laden air enters the ø280 mm cyclone chamber through the 3" connection. Inside the chamber the air is forced into a spiral, and centrifugal force throws the particles out against the wall, where they lose speed and fall into the 20 L collection container. The cleaned air leaves the cyclone through the 2½" clamp connection and continues to the vacuum unit.

Separation depends on the velocity of the air through the cyclone. If the air flow drops too low, the particles lose the centrifugal force that drives separation and the material carries on to the filter. The vacuum unit therefore has to be sized to work in the right range — not simply to be powerful enough.

Technical specifications

Parameter	Value
Type	Cyclone pre-separator, filter-free
Cyclone efficiency	>98 %
Cyclone chamber	ø280 mm
Collection capacity	20 L
Inlet	3"
Outlet	Clamp 2½"
Construction	Stainless steel — chamber, container, lid and frame
Food contact	Meets MOCA requirements for contact materials
Motor	None — connects to a vacuum unit
Filter	None — filtration takes place in the vacuum unit
Dimensions	45 × 40 × 90h cm
Weight	20 kg

CE marking based on: Machinery Directive 2006/42/EC • IEC 60335-2-69

What it connects to

The ESD.SEP-0685 has neither motor nor filter and therefore always works together with a vacuum unit. The outlet is a 2½" clamp connection, and the unit is sized according to the air flow in the installation it forms part of. We help select the right vacuum unit and the right hoses and couplings.

CONTACT

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