

DELFIN · OEB FACILITIES · CYCLONE AND H14 FILTER

Delfin SEP.DC-011

Cyclone and H14 filter unit for OEB 4 containment at process equipment — no side channel blower. Same filtration chain as the PHARMA 40.40 DC: cyclone $\geq 98\%$, H14 absolute filter (20,500 cm²), crimp bag and magnehelic as standard. Requires an external CV vacuum unit.

- Integrated cyclone retains up to 98 % of powder before the H14 filter
- H14 absolute filter (20,500 cm²) — 99.995 % MPPS — included as standard
- Crimp bag (containment bag) and BIBO disposal as standard
- Magnehelic filter pressure indicator and capacity sensor (24 VDC) as standard
- No integrated motor — vacuum source provided by external CV unit in technical room
- Identical filtration configuration to the PHARMA 40.40 DC — WIP, Photohelic and ATEX options available



Delfin SEP.DC-011 PHARMA 40 DC Separator cyclone and H14 filter unit for OEB 4 containment

OEB 4 — HPAPI containment · H14 — 99.995 % MPPS (standard) · Cyclone $\geq 98\%$ — placebo powder · CE — Machinery Directive 2006/42/EC · GMP compatible · AISI 304/316

Quick facts	
OEB suitability	OEB 4
Cyclone	$\geq 98\%$
Filter	H14 (standard)
Filter surface	20,500 cm ²
Collection	Crimp bag + BIBO
Filter indicator	Magnehelic (standard)
Capacity sensor	24 VDC (standard)
Capacity	30 L
Construction	AISI 304/316
Motor	None — requires CV
Weight	80 kg

What is the Delfin SEP.DC-011?

The SEP.DC-011 is the motorless version of Delfin's PHARMA 40 DC platform. It combines the cyclone separator, H14 absolute filter, crimp bag collection system and magnehelic indicator in a single compact unit — identical to the PHARMA 40.40 DC — but without the integrated side channel blower. The vacuum source is instead provided by an external CV unit located in a technical room. It is the natural choice for installations where the vacuum supply is already centralised, or where motor noise needs to be kept out of the production area.

Filter pressure is monitored via the included magnehelic indicator, and the capacity sensor (24 VDC) signals when the collection container is full. The crimp bag's BIBO disposal ensures the operator never contacts the collected material. Optional accessories including WIP (Wash in Place), Photohelic indicator and ATEX Cat. 2GD follow the same programme as the PHARMA 40.40 DC.

No motor: The SEP.DC-011 is a passive unit with no integrated vacuum motor. It requires an external CV vacuum unit to generate the vacuum source. The CV unit is typically located in a separate technical room while the SEP.DC-011 is positioned directly at the process machines. Contact us for sizing guidance on the right CV model for your installation.

The filtration chain in detail

The dust-laden process air enters the cyclone, where centrifugal force separates up to 98 % of the powder from the airstream and collects it in the crimp bag. The remaining air fraction then passes through the H14 absolute filter with a surface area of 20,500 cm² and a filtration efficiency of 99.995 % measured by the MPPS method. The magnehelic indicator provides continuous visual monitoring of the filter condition.

Filter replacement is carried out using the BIBO system (Bag-in Bag-out): the used filter is encapsulated in a sterile single-use bag before it is removed from the filter housing, ensuring the operator never contacts the contaminated material. When the capacity sensor signals a full container, the collection bag is crimped and sealed before emptying — again without operator contact with the collected powder.

Technical specifications

Parameter	Value
OEB suitability	OEB 4
Cyclone efficiency	≥98 % (placebo powder)
Filter	H14 absolute filter — included as standard
Filtration efficiency (MPPS method)	H14 — 99.995 %
Filter surface area	20,500 cm ²
Filtration class (IEC 60335-2-69)	Class H
Collection system	Crimp bag (containment bag) with BIBO disposal
Filter indicator	Magnehelic — visual pressure indication — standard
Capacity sensor	24 VDC — included as standard
Suction inlet	Clamp 3" — AISI 316
Container capacity	30 L
Discharge	Butterfly ø150 AISI 316
Construction — filter housing	AISI 304 brushed stainless steel
Construction — cyclone and contact surfaces	AISI 316 polished stainless steel
Motor	None — requires external vacuum unit (CV series)
Dimensions	95 × 50 × 232h cm
Weight	80 kg

CE marking based on: Machinery Directive 2006/42/EC • IEC 60335-2-69 • Low Voltage Directive 2014/35/EU • EMC Directive 2014/30/EU

Options and accessories

The SEP.DC-011 shares its options programme with the PHARMA 40.40 DC. The main options are shown below.



BIBO filter replacement on Delfin SEP.DC-011

BIBO filter replacement

H14 upstream with BIBO — Standard



Magnehelic visual filter indicator for Delfin SEP.DC-011

Magnehelic filter indicator

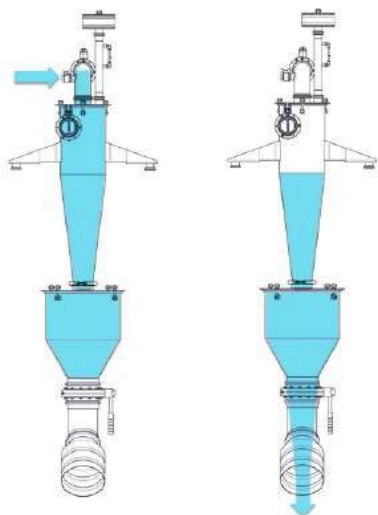
Visual pressure indication • Standard



Capacity sensor for Delfin SEP.DC-011

Capacity sensor

24 VDC signal • Standard



WIP Wash in Place for Delfin SEP.DC-011

WIP — Wash in Place

In-situ cyclone cleaning • Optional



Photohelic filter indicator for Delfin SEP.DC-011

Photohelic filter indicator

Electrical signal 24 V • Optional

Additional options shared with the PHARMA 40.40 DC: crimping tool and sealing caps for containment bag; BIBO support plate in stainless steel; BIBO H14 spare filter kit; F9 safety filter downstream for hazardous and carcinogenic powders; ATEX Cat. 2GD Zone 21 as option.

CONTACT

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