

DELFIN · OEB FACILITIES · DIRECT MACHINE EXTRACTION

Delfin PHARMA 40.40

Compact and quiet industrial vacuum for direct extraction of active ingredients on tablet presses, blister machines and process equipment. OEB 3 rated. Continuous duty. No production downtime.

- Side channel blower — designed for 24/7 continuous duty without thermal limits
- 69 dB(A) — remarkably quiet for a 4 kW industrial unit
- 42 L container in AISI 304 with Clamp Ø70 quick connection
- Class M antistatic star filter — 20,000 cm² filter surface
- H14 absolute filter with BIBO system available as an option
- Safe Bag sealed collection system available as an option



Delfin PHARMA 40.40 industrial vacuum for direct extraction on process machinery in pharmaceutical production

OEB 3 — API direct extraction · Class M antistatic star filter · CE — Machinery Directive 2006/42/EC · EN 60335-2-69 — Class H · GMP compatible · AISI 304 — satin/polished

Quick facts	
OEB suitability	OEB 3
Primary filter	Class M star filter
H14 filter	Optional
Motor type	Side channel blower
Power	4 kW / 400 V
Max airflow	420 m³/h
Sound	69 dB(A)
Container	42 L
Weight	120 kg
Operation	Continuous
Container material	AISI 304

What is the Delfin PHARMA 40.40?

The PHARMA 40.40 is Delfin's compact industrial vacuum designed for direct extraction of powdered active ingredients at process machinery — typically tablet presses, blister machines and similar production equipment. It is not meant to be wheeled around the facility for general floor cleaning. It is meant to be positioned beside the machine, running continuously throughout the production cycle, capturing dust and particles at the source before they reach the production environment.

The drive unit is a side channel blower — a motor architecture that differs fundamentally from the thru-flow and bypass motors found in most pharmaceutical handheld vacuums. The side channel blower is an industrial turbine designed for continuous 24/7 operation without thermal constraints or the duty cycle restrictions that apply to intermittent motors. That is precisely the operating profile required when the machine never stops.

The standard filtration system is built around a large antistatic star filter in Class M with 20,000 cm² of filter surface. A star filter folds the filter medium into a star-shaped structure, providing maximum filter area in a compact format. The integrated manual shaking mechanism dislodges accumulated powder from the filter surfaces to regenerate filtration efficiency during operation. For processes involving more hazardous materials, the unit can be upgraded with an H14 absolute filter — either downstream only, or with a full BIBO system (Bag-In Bag-Out) that allows safe filter replacement without direct contact with collected material.

The container is 42 L in AISI 304 stainless steel, satin finished externally and polished internally, with a Clamp Ø70 quick-connection in AISI 304. The container is emptied via a Safe Bag sealed collection system — a sealed single-use bag that ensures collected material is not dispersed during emptying. Safe Bag is an optional add-on (part no. FI.0469.0000).

OEB boundary: The PHARMA 40.40 in standard configuration is rated for OEB 3. For OEB 4 and OEB 5, the PHARMA 40.40 DC variant is required — it includes a cyclone pre-separator, BIBO H14 filtration and a closed collection system as standard. Contact us if your process requires OEB 4–5 containment.

Technical specifications

Parameter	Value
OEB suitability	OEB 3 (API direct extraction)
Primary filter	Antistatic star filter, Class M — 20,000 cm ²
Filter cleaning	Manual shaking
Filter load	210 m ³ /m ² /h
H14 absolute filter	Downstream H14 — optional (part no. FI.0632.0000)
H14 BIBO system	Upstream H14 with BIBO — optional
Motor type	Side channel blower
Power	4 kW
Current draw	8.4 A
Supply	400 V, 50 Hz, three phase
Max waterlift	3,200 mmH ₂ O
Continuous waterlift	2,600 mmH ₂ O
Max airflow	420 m ³ /h
Suction inlet	Clamp Ø70 mm — AISI 304
Container capacity	42 L
Container	AISI 304 — satin external, polished internal
Collection system	Container • Safe Bag optional (FI.0469.0000)
Operation	Continuous duty (24/7)
Sound level (EN ISO 3744)	69 dB(A)
Dimensions	76 × 52 × 155h cm
Weight	120 kg

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

Options

The PHARMA 40.40 is a configurable platform. The most significant options are shown below.



H14 absolute filter for Delfin PHARMA 40.40

H14 absolute filter (downstream)

Part no. FI.0632.0000 • Optional



Stainless steel support plate for BIBO filter replacement, Delfin PHARMA 40.40

BIBO support plate (stainless steel)

Part no. SL.5907.0017 • Optional



Photohelic filter indicator sensor for Delfin PHARMA 40.40

Photohelic filter indicator

Electrical signal 24V • Optional

Options — overview

Beyond the items shown above, available options include: FDA-certified antistatic filter; stainless steel AISI 304 filter chamber with mirror-polished internal surface; Safe Bag collection system (FI.0469.0000); Magnehelic visual filter indicator; Photohelic filter indicator with 24V electrical output; crimping tool and Safe Bag accessories; and clamp coupling kits in AISI 304 for both Ø70 and Ø50 connections. ATEX certification is also available on request.

CONTACT

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