

TIGER-VAC · ESD-SAFE PNEUMATISK -- EN 60079-32-1 (STATISK AFLADENDE OG JORDET), HEPA H14 EN 1822-5 (99,995 % MPPS), OSHA-COMPLIANT. DESIGNET TIL PULVERLAKERING OG BRAENDBARE STOEV. INGEN SEPARAT ATEX TYPE-EXAMINATION CERTIFICATE.

# Tiger-Vac CSSD-30 (TF) HEPA TWIN VENTURI



The Tiger-Vac CSSD-30 (TF) HEPA TWIN VENTURI is an ESD-safe pneumatic industrial vacuum from the CSSD series -- specifically designed for the powder coating industry and other environments where combustible fine dust is combined with static electricity. The entire construction is static dissipative and grounded per EN 60079-32-1, and there are no electrical parts in the suction circuit. Twin venturi (diam. 6 mm) delivers 331 m<sup>3</sup>/h at 5840 mmH<sub>2</sub>O (573 mbar), driven by a minimum 30 HP compressor at 6,9 bar. 114 L heavy-duty powder coated tank on a 4-wheel dolly. HEPA H14 (211027B, 99.995 % MPPS) is aerosol leak-tested and included as standard. Note: the CSSD series is NOT formally ATEX type-examined -- it is ESD-safe and pneumatic, and use in classified zones requires a Process Hazard Analysis by the user.

## APPLICATIONS

- Powder coating booth and clean-up of paint dust where ESD protection is essential
- General housekeeping in paint shops and powder handling facilities
- Recovery of combustible fine dust where a pneumatic drive is preferred (no electrics)
- Smaller process handling points where a grounded vacuum is required to prevent ESD ignition
- Sites where a classical II 3D ATEX vacuum would be overspec'd but ESD handling is needed

# Technical specifications

<b>ATEX marking</b>	ESD-safe pneumatisk -- EN 60079-32-1 (statisk afladende og jordet), HEPA H14 EN 1822-5 (99,995 % MPPS), OSHA-compliant. Designet til pulverlakering og braendbare stoev. Ingen separat ATEX type-examination certificate.
<b>Internal / external zone</b>	-- / 22
<b>Motor type</b>	Twin venturi (diam. 6 mm), pneumatisk drift
<b>Airflow</b>	331 m <sup>3</sup> /h
<b>Vacuum</b>	573 mbar (5840 mmH <sub>2</sub> O)
<b>Container</b>	114 L
<b>Filter class</b>	H class
<b>Filter type</b>	HEPA H14 (EN 1822, 99,995 % MPPS), aerosol leak-testet, OSHA-compliant -- Tiger-Vac 211027B (CE-version)
<b>Primary filter</b>	Polyester hovedfilter 211480 m/Tridon clamp 211946 og hvid-malet trådbur 214147B (30,5 cm Diam. x 25,4 cm høj)
<b>Cleaning system</b>	Ingen aktivt filterrens-system -- HEPA og hovedfilter skiftes ved fuld mætning
<b>Collection system</b>	Detachable container
<b>Material</b>	Heavy-duty powder coated stålkonstruktion, krop og cart -- statisk afladende og jordet
<b>Supply pressure</b>	6,9 bar
<b>Air supply hose</b>	Diameter 19 mm
<b>Venturi units</b>	2 pcs
<b>Inlet</b>	Diameter 50 mm
<b>Dimensions (L x W x H)</b>	420 x 420 x 790 mm

# Questions and answers

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## Is the CSSD ATEX certified?

No -- not as a type-examined product. The CSSD series is an ESD-safe pneumatic vacuum compliant with EN 60079-32-1 (static dissipative and grounded). It is specifically designed for the powder coating industry where combustible fine dust is combined with static electricity, but does not carry separate ATEX type-examination. Use in Zone 21/22 therefore requires the user to perform a Process Hazard Analysis and judge whether ESD-safe pneumatic construction is sufficient for the specific environment. For formally ATEX-certified pneumatic drive, see the Tiger-Vac ATEX-12A series (II 2GD).

## What is the difference between Single Venturi and Twin Venturi?

The Single Venturi models (CSSD-30/55 SINGLE) use one venturi nozzle of 7 mm and require a minimum 15 HP compressor at 5.5 bar. They deliver 204 m<sup>3</sup>/h. The Twin Venturi models (CSSD-30/55 TWIN) use two venturi nozzles of 6 mm and require a minimum 30 HP compressor at 6.9 bar. They deliver 331 m<sup>3</sup>/h -- about 60 % more flow, but also about 60 % more compressed-air consumption. Choose single if the compressor is limited or the application is single-operator housekeeping; choose twin if you have multiple simultaneous suction points or need to empty booths quickly.

## What is the difference between CSSD-30 and CSSD-55?

Drive and filter specs are identical between 30 and 55. The only difference is the tank size and dimensions: the CSSD-30 has a 114 L tank and is 79 cm tall with a 42 cm square footprint. The CSSD-55 has a 208 L tank and is 115 cm tall with a 62 cm square footprint. Choose the 30 for smaller work stations or where space is tight; choose the 55 when collection volume is high and you want to minimise the number of empty cycles per shift.

## Can it pick up liquids?

Not as standard -- the CSSD series is certified for Dry Recovery Only. Tiger-Vac does however offer an optional floater system (214960) that fits in the tank and automatically cuts off suction when liquid reaches a given level. With the floater system and a drain valve assembly (214962) the unit becomes wet/dry compatible. For primary wet/dry operation in ATEX-classified zones, the ATEX-12A (4W) or (2+2W) is recommended instead.

# Contact and advisory

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