

TIGER-VAC · II 2GD EX H IIC T6 GB / EX H IIIC T85°C DB -- LCIE 03 ATEX 6310 X -- IECEx LCIE 17.0076 X -- EN 17348 LC

Tiger-Vac SS-25 AC TE (HY-C)



The Tiger-Vac SS-25 AC TE (HY-C) is a specialised vapour adsorption unit in the SS series. AC = Activated Carbon -- the unit has 25 kg activated carbon pellets included (211044C, 4 mm pellets) that adsorb VOC vapours from fuel and solvents directly in the unit before the air is exhausted. Unlike other SS TE models, the AC variant has only 3.8 L dust capacity -- because its purpose is not bulk recovery but vapour control. Use it with another vacuum (e.g. SS-25 HRS TE) or as a standalone VOC scrubber. Hydro Cart (HY-C) for ergonomic handling of the 117 kg unit. Same pneumatic motor and ATEX T6 class as the SS series -- zero electrical ignition risk, EN 17348 LC certified.

APPLICATIONS

- Defueling and depuddling of military aircraft (F-35, legacy fighters) in hangars
- Recovery of JP-8, Jet A-1 and diesel spills around refueling stations
- Depot work with fuel residues in defense logistics (NSN/NATO)
- Civilian aviation MRO -- wing-tank emptying during service checks
- Chemical industry with flammable solvents (toluene, acetone, alcohols) in Zone 1/21
- VOC control in closed hangars with high vapour concentration

Technical specifications

ATEX marking	II 2GD Ex h IIC T6 Gb / Ex h IIIC T85°C Db -- LCIE 03 ATEX 6310 X -- IECEx LCIE 17.0076 X -- EN 17348 LC
Internal / external zone	-- / 21
Motor type	Pneumatisk venturi-aggregat (single, 6 mm), ingen elektriske komponenter -- ATEX T6 (Tmax 85 °C)
Airflow	204 m ³ /h
Vacuum	448 mbar (4570 mmH ₂ O)
Container	3.8 L
Sound pressure	75 dB(A)
Filter class	Stainless steel mesh filter
Filter type	Rustfri mesh (213433) + foam-filter (213048) + polyester round filter (213049) + 25 kg aktivt kulpillere (211044C)
Primary filter	Multi-stage: mesh-forfilter -> skum -> polyester -> aktivt kulpillere. Statisk ledende konstruktion.
Cleaning system	Ingen (manuel) -- kulpillere udskiftes som forbrugsartikel
Collection system	Detachable container
Material	AISI 304 rustfri staal
Air consumption	1272 nl/min
Supply pressure	5.5 bar
Air supply hose	Diameter 12.7 mm
Venturi units	1 pcs
Inlet	Diameter 38 mm
Dimensions (L x W x H)	1240 x 510 x 1300 mm
Weight	117 kg

Questions and answers

What's the difference between SS-25 AC TE (HY-C) and SS-25 (TC) TE?

The SS-25 (TC) TE is a standard bulk-recovery vacuum with 56.8 L dust tank and Tilt Cart. The SS-25 AC TE (HY-C) is a dedicated VOC adsorber with only 3.8 L tank but 25 kg activated carbon pellets included for vapour control. Use the AC variant when you do NOT need bulk recovery, but need vapour scrubbing of another unit's exhaust, or as standalone VOC control in hangars with high vapour concentration. Use the standard (TC) variant when you need to recover large quantities of fuel/liquid. Often they are used together in an installation: (TC) for bulk, (AC) for vapour control on the exhaust.

How long do 25 kg activated carbon pellets last?

Depends on VOC concentration and operating time. In continuous operation in a hangar with moderate vapour concentration (e.g. JP-8 vapours at 10-50 ppm), 25 kg of carbon pellets can last 300-600 operating hours before saturation. In high concentration (fuel tank emptying, 1000+ ppm), it can be 50-150 hours. Tiger-Vac recommends pellet replacement based on fuel odour through the exhaust -- when the odour becomes noticeable, the filter is saturated. Replacement is simple: open the panel, empty the bag, fill a new bag (211044C, 25 kg).

Contact and advisory

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