

ATEX COMBI VACUUM WITH SANDING KIT

Tiger-Vac SS-10 (4W) SK HEPA

Air-powered ATEX vacuum for Zone 1 and Zone 21 with random orbital sander. The sander is driven by air from the vacuum, and the dust is extracted at the sander, where it is generated. HEPA H14, AISI 304 stainless steel and room for two operators on the same machine.



Tiger-Vac SS-10 (4W) SK HEPA, pneumatic ATEX vacuum in stainless steel on a 4-wheel dolly with two random orbital sanders and combined suction and air hoses

ATEX Directive 2014/34/EU: II 2GD Ex h IIC T6 Gb / Ex h IIIC T85°C Db · LCIE 03 ATEX 6310 X (third-party certificate) · IECEx LCIE 17.0076 X · EN 17348 DT for combustible dust collection · EN 1822 and IEST-RP-CC001 for HEPA H14 · EN ISO 11203 for sound pressure measurement

Tiger-Vac SS-10 (4W) SK HEPA

Tiger-Vac SS-10 (4W) SK HEPA is a complete sanding system for hazardous areas: an air-powered ATEX vacuum with random orbital sander, hoses, a start-up kit of abrasives and filters, ready to use. Tiger-Vac calls it a Dustless Sanding Kit. The dust is extracted at the sander, where it is generated, instead of settling in the area, where it can be stirred up again and form an explosive dust cloud.

The sander is driven by air from the vacuum. Compressed air runs from the compressor to the machine in one air hose, and from there on to the sander in a combined suction and air hose with a protective sleeve. Suction is created by a single 6 mm venturi, and the vacuum has neither electrical parts nor moving mechanical parts. It is therefore certified in ATEX temperature class T6 with a maximum surface temperature of 85°C and marked II 2GD for Zone 1 gas and Zone 21 dust.

The vacuum is dual-certified under ATEX (LCIE 03 ATEX 6310 X) and IECEx (LCIE 17.0076 X) and marked EN 17348 DT for combustible dust collection. It is built for dry recovery into a 19 litre disposable filter bag, followed by a static dissipative main cloth filter and a HEPA H14 filter. The whole machine is AISI 304 stainless steel, resistance to earth is below 10 ohm, and it stands on a 4-wheel dolly with static dissipative wheels.

Up to two operators can work simultaneously on the same machine. The sanders come in 5" and 6" with PSA (self-adhesive), hook and loop or screen type abrasives, available in many grits. The vacuum can also be bought on its own, without the sanding kit.

Applications

- Sanding steel and metal surfaces before painting in areas classified as Zone 1 or Zone 21
- Maintenance of coatings on tanks, pipework and process plant in the chemical and petrochemical industry
- Sanding where the sanding dust itself is combustible, for example paint, lacquer and powder coating
- Sites where compressed air is easy to bring in, but an approved electrical installation is not
- Work where dust must be captured at source for the sake of the working environment

Technical specifications

ATEX marking (vacuum)	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 DT
Internal / external zone	No internal zone. External Zone 21 for dust and Zone 1 for gas
Drive	Pneumatic venturi, single 6 mm nozzle, no electrical components
Sander drive	Driven by air from the vacuum
Temperature class	T6, max. 85°C surface temperature
Ambient temperature	-4°C to +37°C
Airflow	204 m³/h
Vacuum	448 mbar (4,570 mmH ₂ O)
Air consumption, vacuum	21.2 L/s (1,272 NL/min)
Supply pressure	5.5 bar
Compressed air connection	Ø 12.7 mm (1/2")
Minimum compressor	15 to 25 HP
Sound pressure	79 dB(A) to EN ISO 11203
Filter class	H class
Filter type	HEPA H14 with 99.995 % efficiency at 0.3 µm, tested to IEST-RP-CC001 and MPPS to EN 1822, aerosol leak tested at the factory
Primary filter	Static dissipative main cloth filter on a stainless steel cage
Filter cleaning	None, manual
Recovery	Dry recovery only
Filter bag	Disposable filter bag, 19 L
Material	AISI 304 stainless steel
Resistance to earth	Below 10 ohm
Suction inlet	Ø 50 mm
Cart	4-wheel dolly (4W) with static dissipative wheels
Operators	Up to 2 simultaneously
Sanders	5" or 6", abrasives as PSA (self-adhesive), hook and loop or screen type
Part numbers	110263 vacuum only · 110264A 5" PSA · 110264B 5" hook and loop · 110264C 6" PSA · 110264D 6" hook and loop · 110264E 5" screen · 110264F 6" screen

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