



CONFIGURATION GUIDE

Oils & Chips Vacuums for cleaning, emptying and recycling

Pneumatic Vacuums

Oil & Chips Vacuums for cleaning and recycling

600L large capacity oil & chips vacuums

1000L - 4000L ultra large capacity oil & chips vacuums

Options - Accessories



The SOFRAPER brand has been a benchmark since 1979 in the world of mechanical engineering (automotive, aerospace, medical, rail, etc.) and metalworking in general, for both the power and the robustness of our equipment, designed for intensive industrial use.

CHOOSING THE RIGHT MODEL FOR YOUR APPLICATION

Siebec-Sofraper offers a comprehensive and unique range of standard units, from 100 litres to 4000 litres and from 3.3 KW to 11 KW, for the emptying and the cleaning of machine tools oil tanks.

These high performance units are available in a wide choice of power ratings, capacities, patented technologies, variants and options to suit your application and budget.

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WINDVAC range

Pneumatic Vacuums

The WINDVAC is a pneumatic device (venturi) to vacuum out oil & liquids (sucks and discharge, but not simultaneously).



Strong points

WINDVAC is very popular and unique on the market, sold in thousands of copies mainly for **its ease of use, its robustness, its high vacuum level** (particularly with the patented WINDAC 7 bi-venturi) and for its **silent operation**. This is a key point for venturi systems, which are usually very noisy. With its reinforced barrel and compact total retention carriage, it offers exceptional safety and manoeuvrability for the operator.

The SOFRAPER reinforced barrel

Designed to withstand suction vacuum and discharge pressure, equipped with a float valve and an anti-spray deflector to protect the head, it guarantees performance and reliability for WINDVAC 4 and even more so for WINDVAC 7.

WINDVAC can also be fitted to a standard oil barrel, with reduced performance, using the specific adaptation kit (to be ordered separately), to reduce the budget or simply to suck into a waste barrel for direct evacuation, without discharge operation.

Its applications

It's particularly well-suited to emptying liquids and charged liquids with suspended solid particles. Its ease of use and pneumatic power supply also make it ideal for regular vacuuming of machine retentions, or spills with the wide floor nozzle on wheels. The WINDVAC 7, with its higher vacuum level, can suck up more viscous products or at greater depths than the WINDVAC 4.

Its limitations

The WINDVAC does not separate solids from liquids, so when there are a lot of swarf or heavy sludge to suck up it is not suitable, as it will not completely discharge all the solid particles it has sucked up.

	WINDVAC 3	WINDVAC 4	WINDVAC 7
Function	Suction only	Suction + discharge	Suction + discharge
Suction flow rate (l/min)	130	200	200
Discharge (l/min)	N/A	200	200
Air consumption (m3/h)	45	42	42
Max. vacuum (mmH2O)	3200	4000	3800/7000

PNEUMATIC DRAINING AND VACUUM MACHINE
WINDVAC 7



Simple - Powerful - Fast



You can **discover WINDVAC**
in operation in this video :

[Click here to watch the video!](#)

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OPTIMOIL range

Oil & Chips vacuums for cleaning and recycling

OPTIMOIL are electric vacuums for cleaning, emptying and recycling oil tanks. They are available with different suction power ratings, with or without our patented TURBO multi-motor technology, in 100L or 200L tank versions.



OPTIMOIL 203M TC

COMMON FEATURES



Liquid/solid separation

15L stainless steel chip pre-separator basket (with the option of adding a 200µm or 300µm pre-filtration bag, particularly recommended with the use of the fine filtration at the discharge for lubricant recycling). Access to the basket is immediate, simply by opening the material inlet door.



Simplified cleaning

All versions are fitted as standard with a sloping bottom leading to a large-diameter drain valve, with direct outlet without bend, to allow gravity draining and rapid cleaning of the unit.

Multi-purpose trolley

Drip trolley with accessory holder and wheels that are resistant to lubricants and leave no marks on the floor.

Submerged pump

Allows simultaneous delivery and suction, for easy emptying of tanks with a capacity much greater than the equipment's. The Ø25mm delivery hose, fitted with a pistol grip, allows a flow rate of over 100l/min.

REGENERATION OF YOUR CUTTING OILS



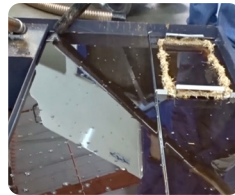
Fine filtration

All OPTIMOIL versions are available with or without fine filtration at the discharge (by 20µm or 5µm cartridge), to regenerate lubricants (neat oil or emulsion). When using fine filtration, we strongly recommend the use of our 200µm or 300µm pre-filtration bags into the chips basket and using the 30L sludge container at the end of tank cleaning, to significantly increase cartridge life.

Depending on the version, **OPTIMOIL** feature 2 patented technologies which, combined with the compactness of the device, offer performance and practicality unique on the market:

TECHNOLOGY TURBO®

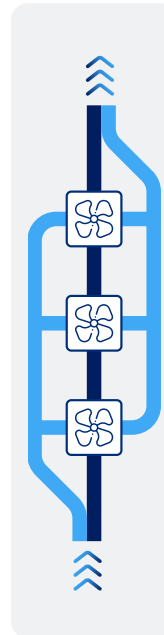
Sofraper's patented **Multi-motor TURBO technology**, switches the suction motors in series or in parallel, to provide very high vacuum and high air flow, automatically depending on the operation performed by the operator. This technology is available in a 9.5kW three-phase version (5.5kW+4.0kW) for extreme applications (lots of sludge or great pumping depth). It also comes in a 3.3 kW single-phase 230V - 16A (3x 1.1 kW) version, the 3M TC, which is highly appreciated for its performance and simplicity. It accounts for 80% of OPTIMOIL sales.



• **Motors in series**
Vacuum x2



• **Motors in parallel**
Air flow x3



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CODE
to discover the suction power
of TURBO technology



TECHNOLOGY HV®

This exclusive SIEBEC SOFRAPER patented technology allows you to switch between 2 modes:

- **SUCTION** : for starting the transfer and the final cleaning of the tray with the suction head
- **TRANSFER** : via a powerful submerged pump for continuous transfer of large volumes of liquids up to 250l/min.

This technology is particularly suitable for emptying tanks of 1000 litres or more. These capacities are found, for example, on washing/degreasing machines, on which frequently need to empty thousands of litres of (non-foaming) detergents . For lower capacities than 500 litres, HV technology is not useful.

HV technology does not require a very powerful suction head, as the fluid is transferred mainly by the submerged pump.
Transfer operations are very quiet, and power consumption is very low, less than 1.5 kW.

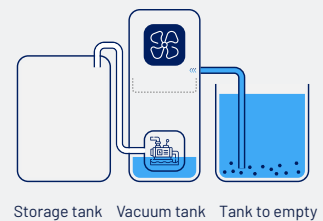
There is an **HV Auto mode option**, which uses a PLC and sensors to **switch automatically between SUCTION mode and TRANSFER mode** during emptying and cleaning operations. This option eliminates the need to return to the device to change modes. This is particularly appreciated by operators of service providers, who often have to carry out these emptying operations alone, without assistance.



HV AUTO VERSION



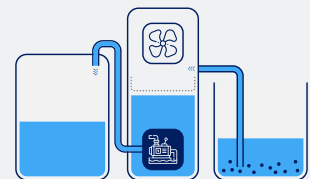
CLICK OR SCAN THIS QR
CODE
to discover the power of
HV technology



Storage tank Vacuum tank Tank to empty

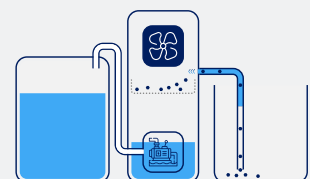
1. Standard suction

Enables the filling of the vacuum tank in order to prime the transfer pump.



2. Transfer up to 250 l/min

Once the pump submerged, the high velocity transfer automatically switches on !



3. Tank bottom suction

Suction of liquids and solids remaining at the bottom of the tank to be cleaned.

TANKVAC SQ 6xx range

600L large capacity oil & chips vacuums

The TANKVAC SQ 6xx offers exactly the same functions and performance as the OPTIMOIL and the same operating procedure. The main differences are :

A 600L tank instead of 100L or 200L.

Fine filtration with 20" high cartridges instead of 10", ideal for frequent filtration of large volumes.

Prehensile on forklift or towable with optional drawbar.

Very large-diameter gravity drain valve for easy cleaning.

Drip trolley with space for loading the 30-litre sludge container.

No HV technology available.

Turbo 9.5kW version available only on the special long version.

Available in a trolley version with large-diameter pneumatic wheels, for frequent use on outdoor surfaces and over long distances.

The TANKVAC SQ 6xx is an excellent choice for frequent emptying of tanks with a capacity in between 170L and 600L.

This is especially true if the aim is to re-inject the filtered fluid into the machine after cleaning. Its large 600-liter capacity eliminates the need to transfer lubricant to an additional container and the 20-inch double-height filter cartridge offers longer service life.



TANKVAC SQ 603M TC

Outdoor rolling version



You can **discover TANKVAC SQ 603M TC** in this training video :



[Click here to watch the video!](#)



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TANKVAC HV range 1000L - 4000L ultra large capacity oil & chips vacuums

TANKVAC HV are self supported electric vacuums designed for regular and often daily emptying of large volumes of fluids.



TANKVAC HV 12xx



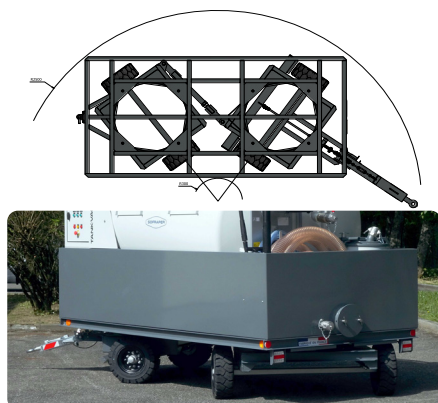
TANKVAC HV 42xx

Capacity

TANKVAC HV integrates **HV technology** and **HV auto mode** as standard, combined with built-in storage capacities of 1000L (TANKVAC HV 12xx) or 4000L (TANKVAC HV 42xx).

Manoeuvrability

The TANKVAC HV 4000 litres is equipped with 2 steering axles, enabling it to operate in extremely confined spaces inside workshops:



Skid version

Skid version

The TANKVAC HV 12xx is also available in a SKID version, which can be gripped by a forklift truck or fitted to a long-fork electric pallet truck, depending on requirements and the environment in which it is to be moved.

Power

In 3.3 kW TURBO single-phase, 5.5 kW three-phase and 9.5 kW TURBO versions for the TANKVAC HV 12xx and 3.3 kW TURBO single-phase and 11 kW TURBO for the TANKVAC 42xx.



11 KW TURBO (2x 5,5 KW)



100% reliant on battery
Autonomy: 3 h in suction
6 h in HV transfer

TANKVAC HV
4203M TC

Self-supported ultra-high
capacity vacuum for fluid extraction



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You can **discover**
TANKVAC HV in this
video :

[Click here to watch the video!](#)

OPTIONS

Vacuum - Draining options

Option	Description
1. Wide floor nozzle	Spill treatment
2. Sludge container (30 litres)	Separate collection of sludge or chips
3. High-pressure effect cleaning lance	Simplified tanks cleaning
4. Pre-filtration bag	Pre-filtration from 2000 µm to 200 µm
5. Fine filtration at discharge	Recycling of your cutting oils
6. Suction and discharge kit in 1000L IBC	Handling volumes in excess of device capacity
7. Level indicator per column	Visual check of fluid level in tank
8. Electric cut-off float	Stops the motor for maximum safety
9. 304 stainless steel tank	Ideal for corrosive and non-foaming detergents

VIDEO : ASPIRATION OF SLUDGE AND CHIPS

Sludge container, cleaning lance, wide floor nozzle on wheels...



[Click here to watch the video!](#)



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1. Wide floor nozzle

- Oil-resistant lips
- On castors to reduce effort
- Adjustable height, without suction pad effect
- Available in width 400mm Ø40mm for WINDVAC and in width 450mm Ø50mm for OPTIMOIL and TANKVAC



2. Pre-separators - Sludge container (30 litres)

- Capacity limited to 30L for easy handling thanks to the limited weight.
- Ideal for separating lubricant from solid waste, particularly prior to fine filtration of lubricant for reuse.
- Also available a 315L tiltable dump for larger volumes of sludge and swarf to be processed.



3. High-pressure effect cleaning lance

- Ideal for reaching and removing particles inaccessible by suction.
- Uses the drained fluid and therefore does not generate any additional effluent to be depolluted.
- Simultaneous washing and vacuuming with OPTIMOIL and TANKVAC all models.



4. Pre-filtration bag

- 200µm or 300µm with handling handles.
- Fits into the 15L stainless steel chip basket.
- Particularly recommended for use with fine filtration of lubricant for reuse (significantly increases the life of filtration cartridges).



5. Fine filtration at discharge

- By filtering the lubricant, you can reuse it in your machine, reducing your consumption and pollutant fluid treatment costs.
- Available in 20µm and 5µm on OPTIMOIL and TANKVAC and down to 1µm absolute on GOLDVAC.
- Cartridge height 10" on OPTIMOIL and 20" on TANKVAC SQ and TANKVAC HV.



6. Suction and discharge kit in 1000L IBC

- Ideal for transferring a volume of fluid far greater than the capacity of your OPTIMOIL or TANKVAC.
- Fitted with cam connectors for Ø50 mm hose , **it secures delivery at very high flow rates** of the OPTIMOIL HV. Supplied with a reducer, it also secures the discharge from the standard Ø25mm outlet of OPTIMOILs not equipped with the HV option (requires the optional removable discharge pistol grip for OPTIMOILs).
- It also has a height-adjustable suction cane (to avoid sucking up the bottom of the IBC after decanting), so you can empty the IBC by connecting the Ø50mm suction hose from your OPTIMOIL or TANKVAC directly.



7. Level indicator per column

- Shows the level of liquid in the device.
- A very practical option when transferring volumes much greater than the OPTIMOIL's capacity to an external container such as a 1000L IBC or oil barrel.



8. Electric cut-off float

- All OPTIMOIL and TANKVAC models are fitted as standard with a mechanical shutter float, which obstructs the air intake of the vacuum pump and blocks liquid suction when the overflow level is reached, but it does not stop the motor.
- The electric float provides additional safety to prevent overflow by stopping the suction motor. This float is set to activate before it reaches the mechanical shutter float.
- This option is recommended for very regular operations involving the transfer of large volumes of liquids, where the overflow liquid level is often reached.
- It's also a popular option for users who use the device daily or intensively, such as service providers looking for maximum reliability on their customer's site.
- This option is available for OPTIMOIL and TANKVAC SQ 6xx. It is fitted as **standard** on TANKVAC HV and OPTIMOIL HV with **automatic HV mode**.



9. 304 stainless steel tank

- WINDVAC, OPTIMOIL and TANKVAC SQ tanks are made of steel with an epoxy powder painted that is highly resistant to neat oils and emulsion cutting fluids.
- When using pure water or alkaline products such as detergents (non-foaming), to avoid corrosion in the tank, we strongly recommend ordering the device with the stainless steel tank option.
- TANKVAC HV are supplied as standard with this option for the intermediate vacuum tank and incorporates HD PE storage tanks.
- This option is often ordered with the HV option on OPTIMOILs.



Please consult us for compatibility with our different devices.

OPTIONS

Choosing the right suction hoses and accessory kits

	Packs & Accessories	Visuals	Suitable for
1	COLLECTION ACCESSORIES PACK EXPERT CLEAN OIL Ø40 (1WAC03P40A) 1 Set to mount on 2" bung, without internal dip tube, including screw connection and 3m hose reinforced polyurethane, with threaded sleeve Sofraper for clamping suction accessories / 1 HDPE rigid cane L=1m / 1 semi-rigid cane L=0.9m / 1 Wide nozzle rubber width 120mm / 1 fine beveled nozzle		WINDVAC 3
2	COLLECTION ACCESSORIES PACK STANDARD Ø40 (1WAC02P40A) 1 Set to mount on 2" bung including internal dip tube, screw connection and 3m hose reinforced polyurethane, with threaded sleeve Sofraper for clamping suction accessories / 1 HDPE rigid cane L=1m / 1 fine beveled nozzle		WINDVAC 4 & 7
3	COLLECTION ACCESSORIES PACK EXPERT CLEAN OIL Ø40 (1WAC01P40A) 1 Set to mount on 2" bung including internal dip tube, screw connection and 3m hose reinforced polyurethane, with threaded sleeve Sofraper for clamping suction accessories / 1 HDPE rigid cane L=1m / 1 semi-rigid cane L=0.9m / 1 Wide nozzle rubber width 120mm / 1 fine beveled nozzle		
4	KIT OPTION FOR STANDARD BARREL MOUNTING (1WAC01F00A) <i>For installation on standard barrel supporting a vacuum of 0.4 bar and a pressure of 0.45 bar. Including coupling / snap 3/4G with float for Windvac 4 or 7 accessory kit and hoses not included.</i>		WINDVAC 4 & 7 included with windvac 3
5	ACCESSORIES KIT Ø40 OPTIMISED FLEXIBILITY (10V001K40C) 3m reinforced polyurethan suction hose with 2 threaded rubber sleeves / 1 Rigid cane PE L=1m TH=2.5mm / 1 Semi-Rigid cane PE L=1m TH=2.5mm / 1 Wide rubber nozzle 120x35mm L=450mm / 1 Fine beveled nozzle 60x20mm L=550mm		OPTIMOIL & TANKVAC SQ 3MTC - 4,0 kW - 5,5 kW
6	ACCESSORIES KIT Ø50 OPTIMISED PERFORMANCE (10V001K50C) 3m reinforced polyurethan suction hose with 2 threaded rubber sleeves / 1 Rigid cane PE L=1m TH=2.5mm / 1 Semi-Rigid cane PE L=1m TH=2.5mm / 1 Wide rubber nozzle 120x35mm L=450mm / 1 Fine beveled nozzle 60x20mm L=550mm		
7	PU HOSE EXTENSION Ø50 (590F50) L=3M + 2 THREADED RUBBER SLEEVES + METAL CONNECTION SLEEVE (1ACC01A05D) Standard length 3m, specific length on request.		
8	ACCESSORIES KIT Ø50 HIGH VACUUM REINFORCED HOSE (10V001K50D) 3m reinforced polyurethan suction hose with 2 threaded rubber sleeves / 1 Rigid cane PE L=1m TH=2.5mm / 1 Semi-Rigid cane PE L=1m TH=2.5mm / 1 Wide rubber nozzle 120x35mm L=450mm / 1 Fine beveled nozzle 60x20mm L=550mm		OPTIMOIL & TANKVAC SQ 9,5 kW (TURBO)
9	HIGH VACUUME PU HOSE EXTENSION Ø50 (191F50) L=3M + 2 THREADED RUBBER SLEEVES + METAL CONNECTION SLEEVE (10V001K50D) Standard length 3m, specific length on request.		
10	ACCESSORIES KIT Ø50 HV WITHOUT HOSE V2022 (10V001K50E) Rigid cane PE L=1m TH=2.5mm / Semi-Rigid cane PE L=1m TH=2.5mm / Wide rubber nozzle 120x35mm L=450mm / Fine beveled nozzle 60x20mm L=550mm / Rigid cane PE with anti-suction nozzle L=1m.		Optimoil HV and TANKVAC HV all versions
11	SUCTION AND DISCHARGE HOSES HV Ø50 WITH M&F CAM LOCK COUPLINGS, CAN BE BUTTED TOGETHER 2 hoses to be ordered for the suction and for the discharge L = 3m (1ACC01A02A) / L = 6m (1ACC01A12A) / L = 10m (1ACC01A12B)		



A question?
Need advice?
Our experts answer you.

Discover all our innovations on

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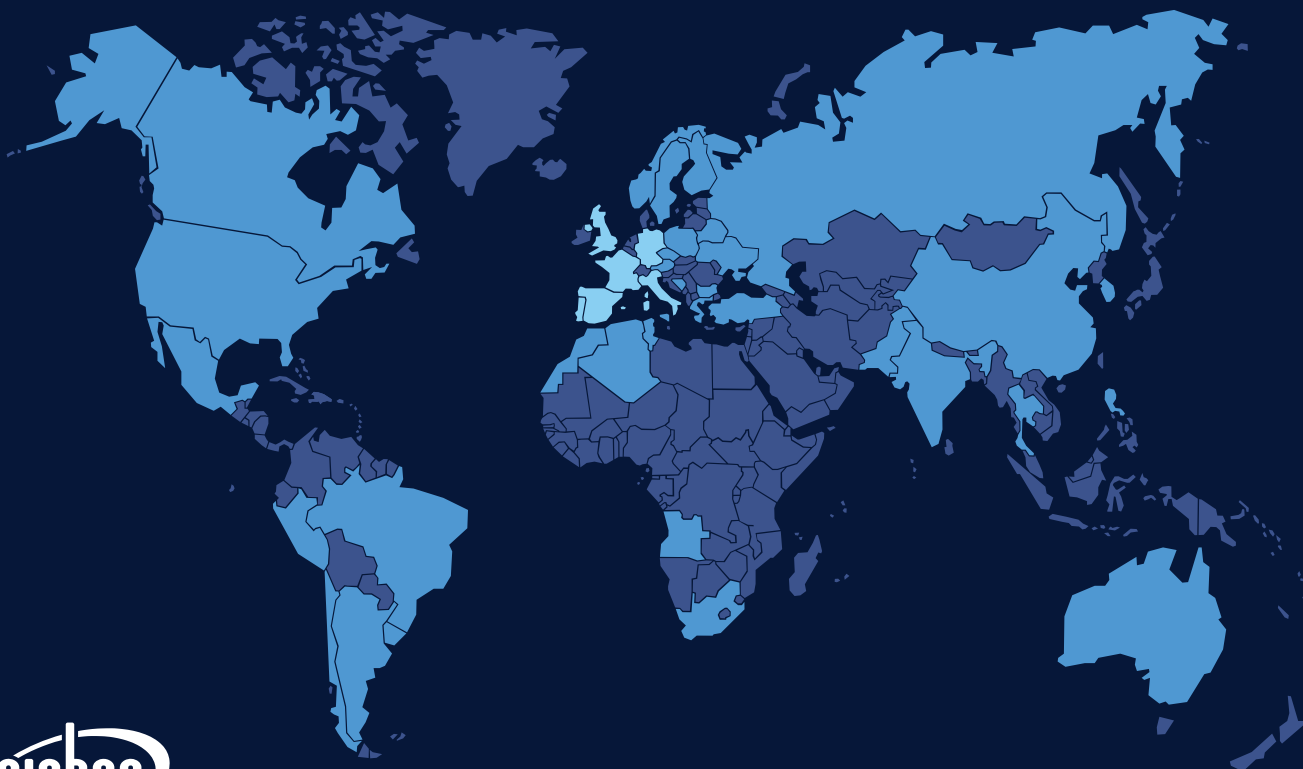
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SOFRAPER, the industrial suction branch of the SIEBEC group



Discover the SIEBEC group



SMART ASPIRATION SYSTEMS

- Several production sites in Europe
- 6 subsidiaries (France, UK, Spain, Germany, Italy, Portugal)
- 45 distributors across the world