

# Nilfisk IVS Surface Preparation Line 2024



**NILFISK**



# Focus

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Value Proposition and SP Range Highlights

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# 1

## Value Proposition and SP Range Highlights

# Surface Preparation range

Value proposition

We help surface preparation professionals complete jobs **quickly, safely** and **efficiently** by providing **durable, reliable and certified** dust extractors and **exceptional after sales support**.

## Complete jobs quickly and efficiently

Focus on the main value: getting the job done quickly and efficiently as this addresses their main pain point: time pressure

## Complete jobs safely

Prioritizing workplace safety and workers health.

## Durable and reliable

Underlining that the range is renowned for its high quality and strong performance,  
– durable components, powerful motor and is now even more durable: sturdier wheels, durable frame, new handle makes it easier to lift and grip.

## Certified

Focus on the certification

## Exceptional after sales support

Differentiator compared to competition

# Your needs built in.

Primary messaging to customers



## Reliability

Your reputation relies on the durability of your tools. Our dust extractors are engineered to stand the test of time, ensuring uninterrupted performance on every job. Renowned for their high quality and strong performance, our machines provide the power and constant suction you need while using less energy, so you get the job done quickly and efficiently. Every time.



## Safety

The safety of your team is our top priority. Our 3<sup>rd</sup> party certified dust extractors are designed to create a healthier work environment by effectively capturing and containing dust particles. Breathe easy knowing that Nilfisk is committed to providing solutions that protect both your team and the job site. Your safety is non-negotiable, and we've got it covered.



## Support

When you need a part, you need it right away. That's why we've made it our goal to be there for you every step of the way. We're committed to ensuring that you have the assistance you need, whether it's spare parts, technical guidance, maintenance tips, or troubleshooting. When you choose Nilfisk, you're not just getting a product – you're gaining a network of support.

Tough jobs require tough tools. Nilfisk has your needs covered with dust extractors that can take a beating while keeping your worksite clean, safe, and free of hazardous dust.

And with a global network of support, we'll have your back whenever you need a hand.

# Range & Performance



- Range width/depth (1-Ph, 3-Ph and battery) From 2 to 13 kW power solutions.
  - [More downstream selling options for our partners](#)
- From 300 to 1.120 m<sup>3</sup>/h airflow
- **Certified machines for asbestos** (silica)
- Manual and automatic filter cleaning systems for **continuous use**





# Know-how



- Nilfisk derives his experience from the **cooperation** with Top Tier surface treatment equipment manufacturers over the years.
- B&C segment serviced focus on **specific requirements** (cement and building materials preparation, surface treatment)
- Opportunity from the experience to introduce now new solutions from our existing range.
- Long experience in managing Private Labels & Key Accounts partner-type relations



# Safety



All models H Class (\*), **designed and built to grant the highest safety standards during use and maintenance** and **Third Party certified**.

**H Class machine Certification is a broader concept than just filtering class...** it needs:

- M class certified primary filter
- HEPA 14 secondary filter upstream
- Air velocity inside the suction pipe > 20 m/s to avoid the settling of dust
- System to prevent the reverse flow at the start-up
- Diffuser to disperse exhausted air and grant air speed < 1 m/s at 1 mt distance
- Longopac for utmost safety at material handling/discharge

\*in compliance with European Standard 60335-2-69

IEC		IECEE		Not. Certif. No.	
				NL-76927	
IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECCT) OF SCHIMM					
CB TEST CERTIFICATE					
Product		Surgical lighting system			
Name and address of the applicant		Metvares Oy Puuskintie 2, FI-16100 LAhti (FI) Finland			
Name and address of the manufacturer		Metvares Oy Puuskintie 2, FI-16100 LAhti (FI) Finland			
Name and address of the factory		<input type="checkbox"/> Additional information on page 2 Metvares Oy Puuskintie 2, FI-16100 LAhti (FI) Finland			
Notes: where relevant, state test category, previous system or page 2					
Ratings and principal characteristics		Q-FLCW S03: 0, 0,0,0,0, 0,0,0,0, QUAD: 100-240 VAC, 50/60 Hz, 234 VA, 1.4x 110 VA Q-FLCW 6: 24 VAC, 100 VA Q-FLCW 4: 24 VAC, 110 VA			
Indications (if any)		Metvares			
Customer Testing Facility (CTF) Stage used					
Model / Type Ref.		Q-FLCW S03: 0, 0,0,0,0, 0,0,0,0, QUAD: 100-240 VAC / Q-FLCW 6 / Q-FLCW 4			
Additional information (if necessary may also be reported on page 2)		<input type="checkbox"/> Additional information on page 2 IEC 60801-1-6:2010, IEC 60801-1-6:2010/AMD1:2013, IEC 60801-1-2:2005, IEC 60801-1-2:2005/AMD1:2012, IEC 60801-2-11:2009, IEC 60801-2-11:2009/AMD1:2013 2242-R3-01 (consisting of sub-reports with subtasks A, B and C)			
A sample of the product was tested and found to be in conformity with					
As shown in the Lead Report Ref. No. which forms part of this Certificate					
This CB Test Certificate is issued by the National Certification Body					
DEKRA Certification H.V. Meander 1051, NL-5625 MJ Arnhem, Netherlands					
Date: 2021-10-20		Signature: H.J.M. Barends			
				Page 1 of 1	



# 2

Target Application –  
Job to be Done

# Target application



## Surface Preparation

Renewal and preparation of the floor in medium and big industrial facility. Dust collectors are connected to shot-blaster and grinders.



## Cement plants

**Nilfisk IVS are used** to collect residuals from the production of cement.

Applications already covered by other Nilfisk products.



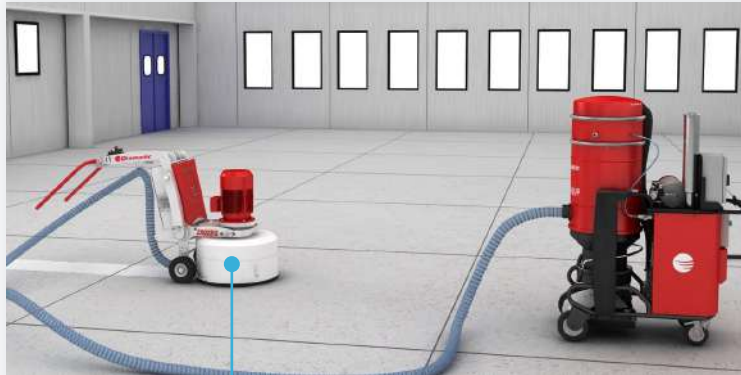
## Craftsman

Collection of small quantities of dust from hand tools in drilling and light grinding application. **Applications already covered by Nilfisk Light-Vac range.**

# Jobs to be done in Surface Preparation



Connection to shot blasting machines for the collection of cement debris – process operation



Connection to shot blasting machines for the collection of cement debris – process operation



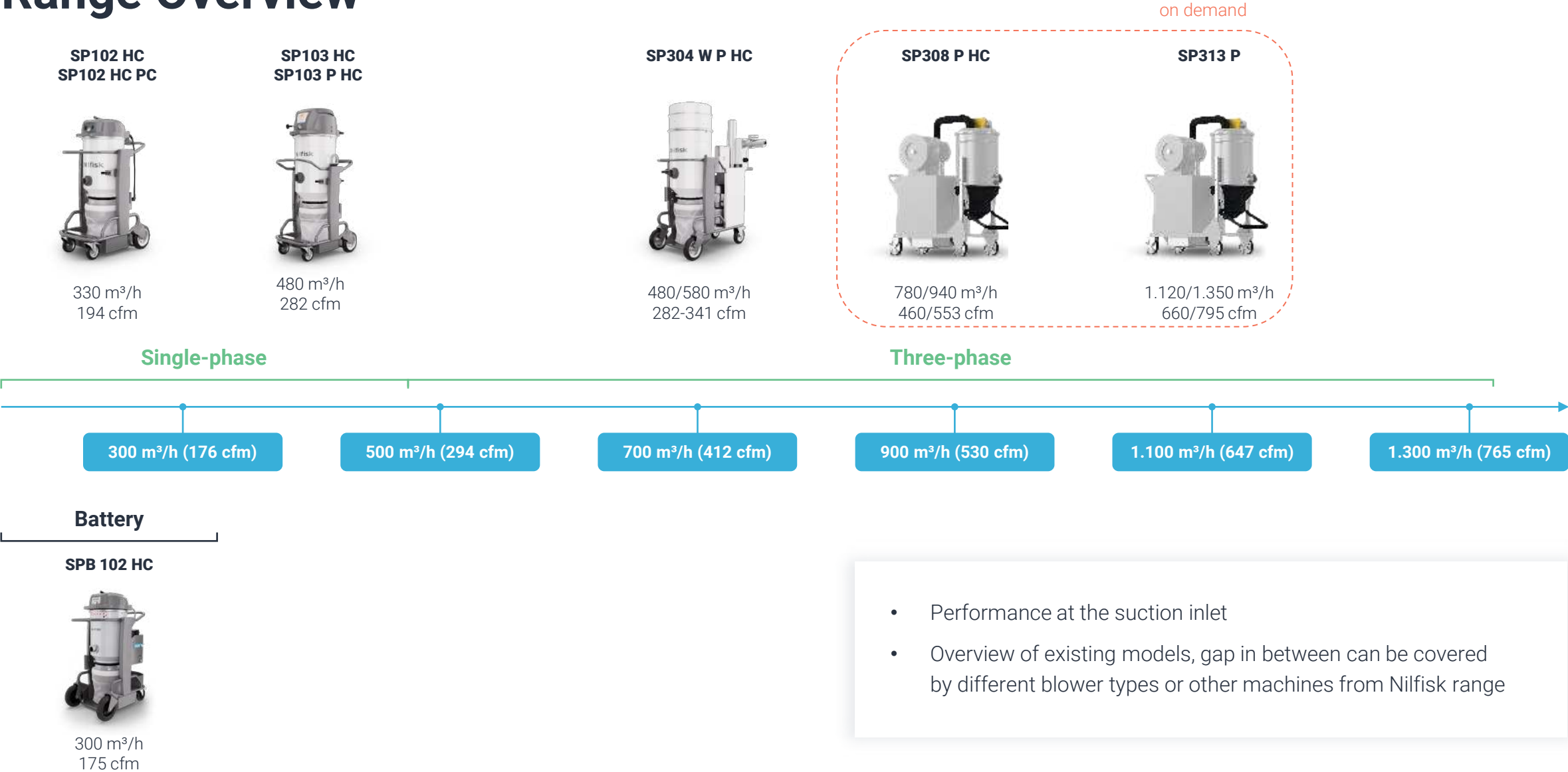
General cleaning of any small or big residual of cement at the end of the surface preparation activities.



# 3

## Range Overview

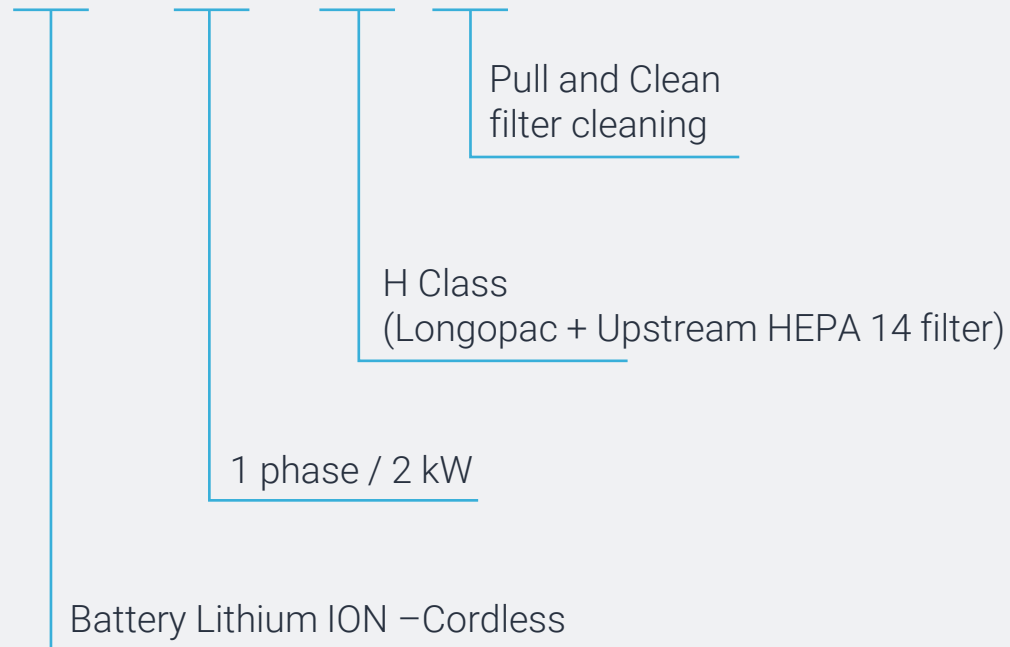
# Range Overview



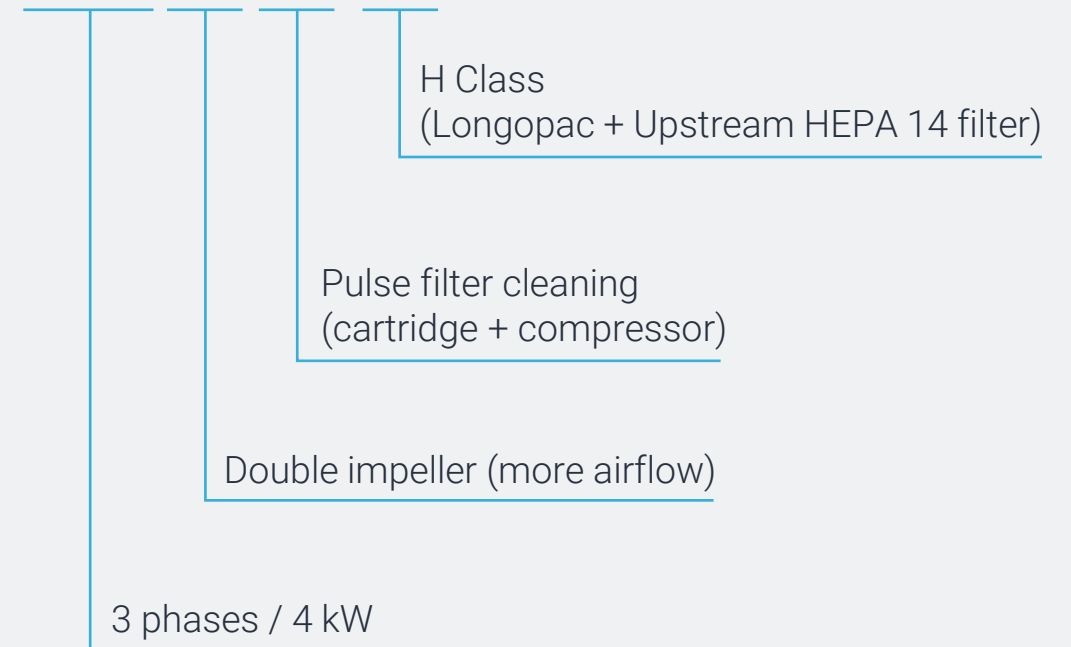
# Range

## Naming

### SP(B) 102 HC PC



### SP 304W P HC





# Nilfisk SP Line

## SPB 102 HC

SPB102 HC is the innovative **battery-operated** vacuum cleaner when there is need for high performances in compact dimensions.

It is designed to be **stable and maneuverable** at the same time, thanks to its robust chassis and **all-around handle**.

Its **third party H Class certification** ensures it has been designed according to the highest standard in safety, protection and reliability when dealing with **hazardous dusts** in harsh working environments.

A **swappable** and plug-play battery ensures **seamless working** and no delays in completing the job, and the possibility to work in **cable mode** makes it even more **flexible** in use.

As option, **Bluetooth** will manage remote start/stop as well as the usage of battery, in order to optimize duration.

Finally, a very convenient accessories holder enables the operator to carry every tool he needs around, thus **avoiding time waste**.



3° party H Class Certification



# Nilfisk SP Line

## SP102 HC (1ph) (option SP102 HC PC)

SP102 HC is ideal single phase dust extractor when there is need for high performances in compact dimensions.

It is designed to be **stable and maneuverable** at the same time, thanks to its robust chassis and **all-around handle**.

Its **third party H Class certification** ensures it has been designed according to the highest standard in safety, protection and reliability when dealing with **hazardous dusts** in harsh working environments.

2 by-pass motors grant **consistent performance** due to their positioning far away from the ground dust, while the **filter status** can be easily **monitored** thanks to a vacuum gauge and visual alarm on the motor head.

A set of accessories is provided (10 mt flex hose, handgrip and floor nozzle).

Alternatively, SP102 can be configured with M Class certified cartridge filter, with very effective cleaning system by **clapet** (SP102 HC PC).



3° party H Class Certification



# Nilfisk SP Line

## SP103 HC (1ph)

SP103 HC is extremely **easy to use** and **reliable**, thanks to 3 by-pass motors positioned far away from the ground dust and a highly visible control panel which can supply **real time status** of the vacuum efficiency.

It is designed to be **stable and maneuverable** at the same time, thanks to its robust chassis and **all-around handle**.

Its **third party H Class certification** ensures it has been designed according to the highest standard in safety, protection and reliability when dealing with **hazardous dusts** in harsh working environments.

3 by-pass motors grant **consistent performance** due to their positioning far away from the ground dust, while the **filter status** can be easily **monitored** thanks to a vacuum gauge and visual alarm on the motor head.

As option, SP103 HC can mount an electric filter shaker, which cleans the filter at every on/off command.

A set of accessories is provided (10 mt flex hose, handgrip and floor nozzle).



3° party H Class Certification





# Nilfisk SP Line

SP103B HC / SP103 P HC (options)

SP103B HC carries a metal motor head with lever switches instead of push buttons, in case of more basic needs (SP103B HC).



Metal motor head with switches

SP103 P HC comes with with M Class certified **cartridge filter** with **automatic filter cleaning** system by a pulse jet of compressed air managed by a **high-quality** on-board Thomas **compressor**.

The compressor is totally **oil-less**, and therefore **maintenance free**



Thomas oil-less compressor

# Nilfisk SP Line

## SP304W P HC (3ph)

SP 304W P HC is the worldwide **Nilfisk’s best selling** three phase industrial dust extractor, tested in every working environment.

Its side channel blower with **double stage impeller**, can be configured in series or parallel so to generate bigger vacuum or massive air flow, thus addressing **all requirements**.

Its **third party H Class certification** ensures it has been designed according to the highest standard in safety, protection and reliability when dealing with **hazardous dusts** in harsh working environments.

It’s **automatic pulse** filter cleaning system (with **Thomas oil-free** compressor on board) ensures no down time while working the floor and **no maintenance** needed.

SP 304W P HC carries 3x M Class certified cartridge filters (5 sqmt each) which can cope with the **biggest grinders** on the market and ensure absolute **filtering performance** and **long lasting** use at the same time.

As option, a **pass-thru** cabinet can act as power-supply bridge to the operating equipment, which therefore enjoys a **longer working reach** with no extra cables involved.



3° party H Class Certification



HEPA 14 filter

3x M Class certified cartridge filters (oversized)

All Around handle

Pass-Thru Control panel (opt)

Thomas Oil-less compressor

Mega Strong Longopac (68µ)

3ph side-channel blower with double impeller

Overall robust frame / stable chassis

Big industrial wheels

# Nilfisk SP Line

## Separator

Effective intermediate station to relief the dust extraction off the shoulders of the vacuum unit and make sure vacuuming capacity is kept consistent, to keep main operating unit fully functional.





# Range

## Highlights recap

### Battery

- **Swappable** battery
- Bluetooth
- Battery/cable (**hybrid**)
- Up to **120 min** duration
- **5 years** battery warranty



### Single Phase

- Stability, **maneuverability**
- **No dust** in the motors
- Accessories included



### Three Phase

- Pass-Tru control panel
- **Oil-less** compressor
- **Extra wide** filter surface
- **Intensive** use



### Common to all

- 3rd party machine **H class certification**
- **Heavy duty** design and construction
- Long lasting life of filters, above industry standards (**low TCO**)
- Mega strong Longopac (**68 micron** thick)
- Certified **M class** filters
- Upstream **Hepa 14** filters (above industry standard)
- **Safe** filter replacement by bag-in bag-out system



# 4

Technical specifications

Correspondence Vacuum / Equipment

# Data sheets (1/2)

Technical data	SPB 102 HC	SP102 HC	SP102 HC PC	SP103B HC	SP103 HC	SP103 P HC	SP304W P HC
Part number	n/a	4012300251	4012300254	4010500146	4010300520	n/a	4010300586
Voltage (V)	36	230/120	230/120	230/120	230/120	230/120	400/460
Frequency (Hz)	-	50/60	50/60	50/60	50/60	50/60	50/60
IP protection Class	44	43	44	43	44	43	55
Insulation Class	III	I	I	I	I	I	I
Rated power (kW)	1,8	2	2	3	3	3	4
Max airflow at inlet (m³/h – l/m) (*)	243 – 4.050	330 – 5.500	330 – 5.500	485 – 8.083	485 – 8.083	485 – 8.083	485 – 8.150
Max. vacuum (mbar)	136	210	210	210	210	215	190
Sound pressure level (dB(A))	71	74	74	75	71	71	72
Container capacity (l)	Longopac	Longopac	Longopac	Longopac	Longopac	Longopac	Longopac
Primary filter type	M Class polyester with glued seams	M Class polyester with glued seams	M Class cartridge	M Class polyester with glued seams	M Class polyester with glued seams	M Class cartridges	M Class cartridges
Primary filter area (sqmt)	1,6	1,6	1,6	1,95	1,95	15	15

(\*) real working value

# Data sheets (2/2)

Technical data	SPB 102 HC	SP102 HC	SP102 HC PC	SP103B HC	SP103 HC	SP103 P HC	SP304W P HC
Part number	n/a	4012300251	4012300254	4010500146	4010300520	n/a	4010300586
Main filter clogged warning	Visual alarm	Visual alarm	Visual alarm	Visual alarm	Visual alarm	Visual alarm	Visual alarm
Main filter cleaning system	Manual	Manual	Pull&Clean clapet	Manual	Manual	Pulse continuous automatic on-board compressor	Pulse continuous automatic on-board compressor
Upstream HEPA H14 filter (sq mt)	1,6	1,6	1,6	2,6	3,5	3,5	3,5
HEPA filter clogged warning	N.A.	N.A.	N.A.	Visual alarm (included)	Visual alarm (included)	Visual alarm (included)	Visual alarm (optional)
Inlet diameter (mm)	50	50	50	70	70	70	70
Length x width x height (mm)	560x570x1.020	610x840x1300	610x840x1300	800x600x1.500	800x600x1.550	800x600x1.650	1.130x600x1.530
Weight (kg)	66	70	70	76	82	85	221
Switch motor protector	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	YES
HEPA (H14) upstream filtration	included	included	included	included	included	included	included
M Class filter	included	included	included	included	included	included	included
Plug with phase inverter	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Included
H-Class hazardous dust approval (third party certified)	YES	YES	YES	YES	YES	Coming soon	YES

# Features recap

	SPB 102 HC	SP102 HC	SP102 HC PC	SP103B HC	SP103 HC	SP103 P HC	SP304W P HC
Part number	n/a	4012300251	4012300254	4010500146	4010300520	n/a	4010300586
Hepa 14 upstream filter	included	Included	Included	included	included	included	included
HEPA filter clogged warning	N.A.	N.A.	N.A.	N.A.	included	included	N.A.
Accessories kit	included	included	included	included	included	included	<b>optional</b>
Anchoring points	<b>optional</b>	<b>optional</b>	<b>optional</b>	<b>optional</b>	<b>optional</b>	<b>optional</b>	<b>optional</b>
M Class PTFE filter star filter	<b>optional</b>	optional	N.A.	optional	<b>optional</b>	N.A.	N.A.
110V UKP version	<b>optional</b>	<b>optional</b>	<b>optional</b>	<b>optional</b>	<b>optional</b>	<b>optional</b>	<b>optional</b>
Electric filter shaker (SE)	N.A.	N.A.	N.A.	N.A.	<b>optional</b>	N.A.	N.A.
Pass-Thru electrical cabinet (PT)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<b>optional</b>
Pulse system / automatic filter cleaning (P)	N.A.	N.A.	N.A.	N.A.	N.A.	included	included
On-board oil-less compressor	N.A.	N.A.	N.A.	N.A.	N.A.	included	included
Extra battery pack	<b>optional</b>	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Bluetooth	<b>optional</b>	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Power cable for hybrid mode	<b>optional</b>	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



# Correspondence dust extractor Vs grinder (indication)

**SP 102**



- 1-Ph grinders up to 2.2kW
- 3-Ph grinders up to 4kW
- Single or multiple discs up to 350mm diameter

**SP103**



- 3-Ph grinders up to 4kW
- Multiple discs up to 500mm diameter
- Pulse and compressor on board model for heavy and continuous use for several hours a day

This is a theoretical indication based on power and performance.

Combination is often defined based on the power and current available in the Construction Site

# Correspondence dust extractor Vs grinder (indication)

**SP304**



- 3-Ph grinders up to 11W
- Multiple discs up to 780mm diameter
- Heavy and continuous use

**SP308**



- 3-Ph grinders over 11W
- Multiple discs over 780mm diameter
- Combination of 2 grinders up to 500mm diameter
- Heavy and continuous use

**SP313**



- 3-Ph grinders over 15W
- Multiple discs over 780mm diameter
- Combination of 2 grinders up to 500mm diameter
- Heavy and continuous use

This is a theoretical indication based on power and performance.

Combination is often defined based on the power and current available in the Construction Site

# Correspondence dust extractor Vs shot blaster (indication)

**SP 102**



- 1-Ph shot blaster up to 3kW
- Max width 200mm

**SP103**



- 3-Ph shot blaster up to 7,5kW
- Max width 350mm

This is a theoretical indication based on power and performance.

Combination is often defined based on the power and current available in the Construction Site

# Correspondence dust extractor Vs shot blaster (indication)

**SP304**



**SP308**



**SP313**



- 3-Ph shot blaster up to 15kW
- Max width 600mm
- Heavy and continuous use



- 3-Ph shot blaster over 15kW
- Max width over 600mm
- Heavy and continuous use



- 3-Ph shot blaster over 15kW
- Max width over 600mm
- Heavy and continuous use

This is a theoretical indication based on power and performance.

Combination is often defined based on the power and current available in the Construction Site

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