

PRODUCT RANGE 2020/2021

**starmix**  
Made in Germany. Made for you.

Craft & Cleaning



# STARS

FOR THE CRAFT & CLEANING

Whatever the challenge awaits you – here you will find equipment that complements your great performance!



# High-quality cleaning and sanitary solutions for a clean and sustainable world

Using the expertise we've gained from air, sweeping and air technology and our application-oriented product design, we create high-quality cleaning and sanitary solutions for a healthy, clean and sustainable world.

Because we listen carefully to our customers, we have a deep understanding of their day-to-day work and what they need, so we can offer solutions that really help.

**Made in Germany. Made for you!**



**FOR YOU!**

**We are there for you right from the start:**

- We include our customers in product development so that we can deliver practical solutions.
- We give professional and comprehensive advice about all our products in person.
- To do this, we use a wide and reliable sales network in more than 100 countries.
- Thanks to our lean organisation, we are flexible and able to guarantee short lead times.
- Personal customer service, maintenance and disposal of old appliances.
- For service support, you can always rely on our professional customer service and on our service partner.
- As a responsible employer, we value our team and provide a modern and healthy working environment.



**FOR AN OPEN WORLD!**

**Starmix and haaga are ELECTROSTAR GmbH brands, forming part of the international Algo Company Group.**

Although our local roots run deep, we have a global presence with a subsidiary in China and sister companies in Russia and the Netherlands. Professional users work with our developments and products on every continent of the world.



**FOR TOMORROW!**

**For almost 100 years, we have been developing and producing technological market leaders, tailor-made for your requirements.**

Today, based on modular technology, we create high-performance solutions for professional cleaning and sanitary products.

Product series such as iPulse, with its unique filters and filter cleaning technology, define industry-wide standards.

Thanks to our customer-oriented innovation strategy, we are fully prepared for the future.



**FOR THE ENVIRONMENT!**

**When you opt for a starmix product, you are opting for environmental protection and sustainability:**

- We use mostly recyclable materials and avoid those that are harmful to the environment.
- At the new site in Ebersbach, we save up to 30 % CO<sub>2</sub> – thanks to modern insulation, the use of highly efficient heating systems and energy-saving lighting.
- When in use and during cleaning, our products release fewer harmful emissions thanks to innovative filter technologies.
- Due to their outstanding 'Made in Germany' quality, our products have an impressive durability. We build easy-to-repair appliances and make spare parts available for a longer period of time. In this way, we are already supporting the EU's plans for the district economy.



# It's time for your performance




What awaits you again today? Milling cable ducts by the kilometre?  
Sanding back painted wood? A damp cellar? Working with  
plasterboard?

It doesn't matter – tackle it.  
With the starmix vacuum cleaner you're prepared for everything.  
Even for the toughest continuous use.



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# Cordless Alliance System One battery many solutions.

Cordless Alliance System (CAS) is a cross-manufacturer battery pack system of leading power tool brands. The alliance unites innovative power, high performance of the products and the common goal to make professionals independent from the power socket. Together with nine other manufacturers, starmix and haaga are among the founding members. The circle of the CAS is growing steadily, in the meantime it is already 17 members.



## 100% compatibility for over 160 machines in the 18 volt class!

Unlimited combinations: Now you can combine machines, battery packs and chargers of different manufacturer with each other without any problems.

## 100% leading battery pack technology!

CAS uses the world's most powerful battery pack system in the industry - from Metabo. With more than 30 years of battery pack expertise, Metabo is pioneer in the battery pack technology and in the topic of "cordless construction site". The focus is on 18V the most important application range for professionals users.

## 100% user benefits!

CAS stands for a sophisticated battery pack system on which you can now also rely for different standard and special applications. Thanks to the multiple use of existing battery packs you achieve clear cost benefits. CAS also offers highest reliability and high investment security of a guaranteed sustainable battery pack system.



## Cordless vacuum cleaner QUADRIX L 18V

In the workshop, on a building site and particularly during assembly work, you have to be mobile and flexible. There's no time to haul things around or to look for sockets all the time. That's why the QUADRIX L 18V is lightweight, compact and cordless. And if your work takes a bit longer, the appliance just keeps going – thanks to its battery-conserving ECO mode and manual filter cleaning. With this ideal secondary appliance, work becomes fun again.



CRAFT

## The cordless wet/dry vacuum cleaner! ISC **BATRIX**



World premiere times two in 2020: for the first time, a battery-powered wet/dry vacuum cleaner performs as well as a mains vacuum cleaner. A second highlight: Cordless Control – the innovative radio connection between the vacuum cleaner and the power tool! Of course, the ISC BATRIX also uses the flexible CAS battery technology.



Attached to the suction hose or power tool, CoCo detects the operating status of the battery power tool (on/off) and automatically switches the vacuum cleaner on or off via the radio connection.



Battery packs of the Cordless Alliance Systems (CAS). Cross-manufacturing use of the battery packs within the CAS.



2 x Li-HD battery packs 18 V 8.0 Ah + Quick charger. Running time: Boost (15 min.), Eco-Modus (45 min.), Low (120 min.)



Newly developed brushless motor (BL motor) allows a more compact and weight-reduced design, while providing better efficiency and more power. With the BL motor and intelligent motor control, the vacuum cleaner lasts longer with one battery charge.



2 foldable hose hooks for easy and safe storage of the suction hose.



Image similar



Warning, fine dust!

## Better, dust-free work

The problem: whether on a building site, in business premises or homes – drilling, milling, grinding and sawing often create very high dust emissions. The danger: without the relevant protective measures, the smallest of dust particles are breathed in. In the worst cases, these penetrate into the alveoli, where they cause severe damage. The ideal solution: timely avoidance of dust development through use of the highly efficient Starmix high performance electric power tool vacuum cleaners. The advantage: they suck up dust particles directly into the electric tool with intelligent pulse filter cleaning.



Fine dust is highly dangerous!  
Take care of your health.

### ★ Take no risks!

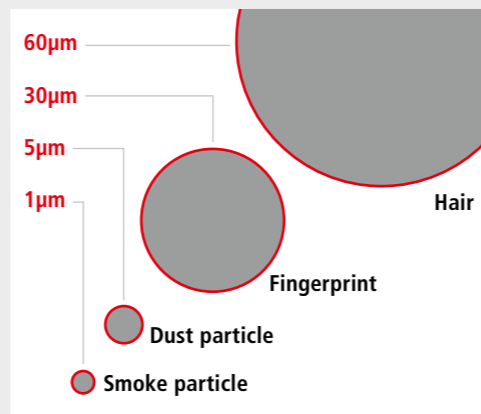
It doesn't matter where you work – dust occurs everywhere. Therefore, it is important to know the dangers that could exist. They range from light to middle through to highly dangerously classified dusts. At high exposure, it often leads to illnesses - in extreme cases, even lung cancer.



### ★ Do not forget: finer is more fearsome.

The general rule is: the finer the dust, the greater the health risk. Therefore, different particle sizes have different dangers:

- < 10 µm Reduces lung function
- < 2 µm Skin and eye ailments
- < 1 µm Tumors
- < 0.1 µm Heart and lung diseases



### ★ Dust-free instead of construction freeze!

Since 1st June 2010, new technical rules for dangerous materials have been in force (TRGS 559). The legislators stipulate that machines and equipment are to be operated in such a way that as little dust is released as possible.\* In some countries, authorities are already closing down construction sites with no dust extractors in operation.



### ★ The best vacuum cleaner for every task.

Starmix offers a suitable vacuum cleaner solution for every dust protection class:

- Direct dust vacuuming at the tool
- Intelligent electric and innovative filter systems
- Patented permanent impulse filter cleaning "iPulse" for the toughest challenges
- Use of fleece and PE bags possible.



### ★ All dust classes at a glance.

#### Dust class L (light)

These dusts have an occupational exposure limit value (AGW) of > 1 mg/m<sup>3</sup>. The filter material of vacuum cleaners of dust class L is tested. The maximum particle penetration grade is less than 1%. There are no special disposal requirements.

#### Dust class M (middle)

Here, dusts with an AGW of > 0.1 mg/m<sup>3</sup> are present. These vacuum cleaners are tested as complete units. The maximum particle penetration grade is less than 0.1%. Disposal of the dirt must be carried out low on dust.

#### Dust class H (high)

This dust class covers dust with an AGW value of < 0.1 mg/m<sup>3</sup>, all carcinogenic dust and dust which is tainted with pathogens. These vacuum cleaners are also tested as complete devices. The maximum particle penetration grade is less than 0.005%. Disposal of the dirt must be carried out free of dust.

#### Dust class asbestos

This class corresponds to dust class H. The difference: an additional test for machines and devices that eliminates dust and is intended to collect and separate asbestos (in accordance with TRGS 519).

### ★ Working with Starmix: lots of choice, many advantages.

As well as the avoidance of dangerous fine dusts, starmix vacuum cleaners offer many other advantages. A few examples:

- awarded with the best certifications (A TNO)
- simple, self-explanatory operation.
- protects the electric power tool from extreme dirt.
- simple work preparation, as hardly any isolation or housing is necessary.

**NO MORE  
DUST, NOW!**

Detailed info here!

Dust classes in accordance with IEC/EN 60335-2-69, annex AA (extract)

Dust class	AGW value*	Particle penetration grade (max.)	Disposal
	> 1 mg/m <sup>3</sup>	< 1% (filter material only)	–
	≥ 0.1 mg/m <sup>3</sup>	< 0.1% (complete system)	low dust
	< 0.1 mg/m <sup>3</sup>	< 0.005% (complete system)	free of dust
	asbestos	< 0.005% (complete system)	free of dust

\*AGW = Occupational exposure limit value









Important tools always with you!

## Adapter plate **UNIFIX**

As a professional, you don't like wasting time. So, looking for your tools is really not your thing. But you are clever and can easily attach any standard work tool box onto your starmix vacuum cleaner using the UNIFIX adapter plate. From then on, your work tool is always where you need it to be.



No transport problems anymore.  
**UPGRADE NOW!**

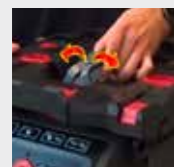
★ All common boxes are mountable! (**Systainer** & **Sortimo Bosch (L-BOXX)**)

UNIFIX			
Article no.	449432		
Technical data			
Dimensions	L x B x H	cm	45 x 39 x 7,5
Weight		kg	1,2



### One for all

With the UNIFIX adapter plate, a large number of tool boxes from various manufacturers can be mounted and transported on the vacuum cleaner. UNIFIX fits universally on all starmix **iPulse**, **ISP** and **ISC Compact** series.



### Tool-free mounting

For mounting the adapter plate UNIFIX on the head of the vacuum cleaner no tools are required.



**NEW**

**UNIFIX**

### YOUR BENEFITS AT A GLANCE:

- ✓ For all common tool boxes of the systems "Systainer" (T-Loc/Classic/Midi) and "Sortimo/Bosch (L-BOXX)"
- ✓ Compatibel with all starmix vacuum cleaners of the series iPulse, ISP und ISC
- ✓ Tool-free mounting
- ✓ Hose winding
- ✓ Integrated cable hook
- ✓ Top quality "Made in Germany"



CRAFT

### Hose winding

Easy and secure attachment. The hose is wrapped around the suction head and pressed three times in the two-sided brackets. Simple and efficient.



### Cable hook

The integrated cable hook with plug fixation on the adapter plate ensures a tidy cable during transport and storage.



### Wire ropes

Recesses for tensioning cables: to attach boxes, which don't match the System Systainer or Sortimo, or other objects.



### Adapter plate

Also perfectly equipped for stationary work in the workshop. With UNIFIX, the tools you need will always be within reach.



# "iPulse" Reloaded: for your greatest challenges

The electric power tool is in your hands. A long day is ahead of you. Tough work, long hours. You can't afford any interruptions, you must finish. You know that dust is awaiting you. A lot of dust. Dangerous dust. But that doesn't bother you. Your "iPulse" will protect you. And the air is always clean. Your tools last longer. Your customer is satisfied and you leave a clean, dust-free site behind you.



## iPulse RELOADED

"iPulse" series

### For the most fine, and problematic dust!

The innovative power tool vacuum for extreme use with very high dust emission. For vacuuming directly next to electric power tools during drilling, milling, grinding and sawing work. Innovative filter technic for materials such as concrete, plaster, stone and cement, through to wood, metal, paint and lacquer and on to the handling of health-endangering, asbestos-containing fine dust. "iPulse" technology with intelligent pulse filter cleaning provides permanently free filters without performance deficits and suction power interruption.

Warning, fine dust!  
Take care of your health.  
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#### Your colleagues are delighted:

**Bert B. (carpenter)**  
about the iPulse:

"The suction power of the new iPulse is great! Better than all devices from other manufacturers. Another important argument is that we can transport all our boxes. Only starmix in the future!"



**Klaus H. (assembly operation)**  
about the iPulse:

"Amazing what the iPulse contributes in terms of performance. In addition, other useful details make the daily work routine easier. I think the big wheels and the handle are great, the vacuum is easy to lift up the stairs."





„iPulse“ series  
**Hightech, Highpower, High-end**

The patented filter cleaning technology gives the iPulse its unique performance. The demand-driven, permanent filter cleaning works without power interruption and enables uninterrupted vacuuming. This saves time and costs, and improves productivity by eliminating the need for involuntary work breaks.



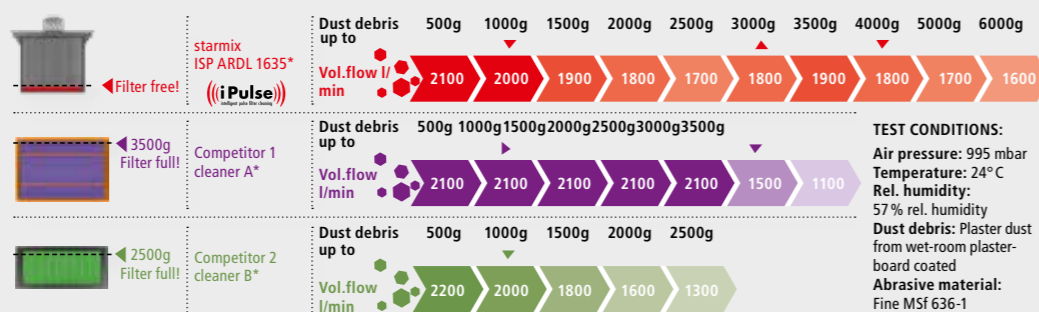
Away with dust:  
filter cleaning without  
power interruptions for  
continuous work!

★ "iPulse" – the first vacuum cleaner in its class with differential pressure measurement



Intelligent electronics measure the suction before and after the filter (DDM). As soon as a suction value set at the factory is fallen below, the impulse filter cleaning switches on automatically and cleans both filter cassettes for 3.5 seconds, one after the other, with electromagnetic shocks. Even problematic dust such as plaster cannot stand the forces at work - over 300 times the force of gravity (300 g).

Fill level/volume flow comparison with plasterboard



Continue when all the others have given up!

**iPulse RELOADED**

**NEW FEATURES AT A GLANCE:**

- ✓ Adapter plate UNIFIX for mounting tool boxes of the systems "Systainer" and "Sortimo/Bosch (L-BOXX)"
- ✓ "Smartfix" – the systainer attachment
- ✓ Powerful high-performance motor
- ✓ Speed controller integrated in the selection switch (also for M-/H- and H-asbestos)
- ✓ Push handle FB 35
- ✓ Top quality "Made in Germany"
- ✓ Improved handling of the rotary slide
- ✓ New, elastic fastening
- ✓ Newly developed accessory fixation



**Smartfix**  
The 4-point tool that can be used without tools for attaching all transport toolboxes of the "systainer" system. 2 rails expand the storage area of the suction head and offer velcro straps, e. g. for attaching the suction tube.

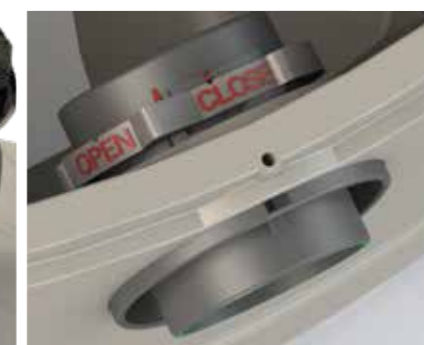


**Speed control/ selection switch**  
2-level speed control for M-, H- and H-asbestos vacuums is integrated into the selection switch with which the tube diameter is adjusted.



**Safe dust disposal**

The conversion from a fleece filter bag to PE bags requires different air conditions in the container. The starmix rotary vane allows the use of both bags (depending on the application) by moving the slider.  
OPEN = PE emptying bag  
CLOSE = Fleece filter bag





„iPulse“ series

## Exciting technology for real stars

The new iPulse series is equipped with a range of innovative, practical solutions that significantly increase customer satisfaction and provide even more fun and comfort at work.



Great new features for even more effective working!

### ★ Technical highlights and features



#### High-performance motor

High-speed motor with 15-20% higher volumetric flow and vacuum than previous motors.



#### Special filter concept

2 cartridges for extremely high dust absorption, protected in the integrated motor head. Easier and cleaner access to the filter cassettes. No contact with dirt or dust when changing the filters.



#### Multifunctional elements (Basic variations)

4 brackets for pulling on securing straps e. g. for transporting boxes on the vacuum cleaner. Also velcros for safe storage of the hose can be fixed with this multifunctional elements.



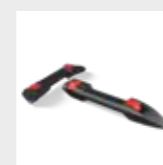
#### Main switch

On-demand, automatic pulse filter cleaning. No suction loss – always free filter:  
0 = OFF  
IR = ON / automatic filter cleaning only with added filters  
AR = Automatic start-up with on-demand filter cleaning  
A = Automatic start-up without vibration



#### Container

Extremely robust, double-walled container for construction sites. Impact-resistant construction. Simple and quick to empty due to smooth interior walls. Very stable with large wheels and castors. Flush and stable fasteners.



#### Smartfix rail set

For secure attachment of all boxes of the system "Systainer". Stow any accessories by pulling in tension belts. Handle for carrying the device and for fixing the hose. iPulse 'Basic' models can be upgraded.



### THE ADVANTAGES AT A GLANCE:

- ✓ For hard, continuous use on the construction site
- ✓ Approved for dust classes L/M/H/H asbestos
- ✓ DDM: constant monitoring of the filter layers
- ✓ Cleaning with 300-times gravitational strength
- ✓ Strong suction performance without interruption
- ✓ Extra robust

#### Accessory storage

Optionally installed and expanded on the appliance. With 4 mounts for secure attachment of accessories. Place to stow the nozzle when not in use and 2 additional mounts on the top section.



#### Hose winding and fixation

Secure storage of the hose by using the velcros.



#### Seal

Elastic TPE, good handling. Injected directly at the suction inlet. For dust-free transport of the vacuum cleaner.



#### Push handle

For easy transport of the device. Even full and heavy containers can be moved easily. Powder-coated; no electric charge. (standard or optional)





**iPulse RELOADED**

"iPulse" series

**Electric power tool vacuum cleaner (wet/dry)**

For vacuuming directly next to power tools during drilling, milling, grinding and sawing work in the workshop or on the construction site. The specialist for the toughest continuous use on the most difficult of fine and problematic dust.

extreme dust emission

**iPulse L-1635 Basic**

For the most difficult of fine and problematic dust.

**iPulse L-1635 Top**

For the most difficult of fine and problematic dust. With push handle.

Article no.	018539	018621
<b>Included in the scope of delivery</b>		
<b>Accessory set</b>	<b>*BASIC, only individual parts can be ordered</b>	<b>*EWS, art. no. 072401</b>
Filter bag	1 unit FBV 25-35 After-sales art. no. 411231 (5 pcs.)	1 unit FBV 25-35 After-sales art. no. 411231 (5 pcs.)
<b>Equipment</b>		
Main filter	FKP 4300 (polyester) Dust retention capacity: 99.9 % art. no. 416069	FKP 4300 (polyester) Dust retention capacity: 99.9 % art. no. 416069
Impulse filter cleaning	yes – iPulse	yes – iPulse
Smartfix for toolboxes	no, multifunctional element	yes
Multi-function element	yes, 4x	no
Speed controller	yes, stepless	yes, stepless
Appliance socket	yes	yes
Filter control light	yes	yes
Push handle	no, optional FB 35, art. no. 445137	yes
Carring handle with cable hook / hose fixing - plug fixation	yes/yes (1 velcro)	yes/yes (2 pcs. velcro)
Pre-selection switch volume flow / hose ø	no	no
Electric volume flow monitoring with optical + acoustic warning function	no	no
Rotary vane for flexible use of fleece filter bags and PE emptying bags	yes	yes
Fastening for intake manifold	yes	yes
Soft start / after-run	yes	yes
Water level detection	yes	yes
Antistatic equipped	yes	yes
Accessory storage	no, optional (Art. no. 445113)	yes
<b>Technical data</b>		
Power consumption (max.)	Watt	1600
Volume flow (max.) measured at the motor head	l/s	75
Volume flow (max.) measured at the end of the hose	l/s	45
Vacuum (max.) measured at the motor head	mbar	280
Vacuum (max.) measured at the end of the hose	mbar	245
Container volume (max.) gross-dust-water / container material	l	35/25/22 plastic
Sound pressure level	dB(A)	69
Dimensions	L x B x H (*inkl. FB)	53 x 40 x 56 cm
Weight	kg	15.6
Power cable length	m	8 (rubber, H05RR-F), red
Maximum reach	m	11.0 – 12.0

**★ Scope of delivery:****Basic**

- 1 velcro
- **Accessory set BASIC:\***

**Equipment**

- 1 x Suction hose, ø 35 mm x 3,2 m, art. no. 413228
- 1 x Tube handle, plastic with supplem. air slide, art. no. 424804
- 2 x Suction tube, plastic (each 50 cm), art. no. 424859
- 1 x Crevice nozzle (22 cm long), art. no. 417011
- 1 x Rubber nozzle (23 cm long), art. no. 425696
- 1 x Floor nozzle 30 (BG Bau), art. no. 440941

**Top**

- Smartfix
- 2 pcs. velcro
- Push handle
- **Accessory set EWS:\***

**Ausstattung**

- 1 x Suction hose with red supplementary air ring, ø 35 mm x 5 m, art. no. 447193
- 1 x Tube handle, stainless steel, supplem. air slide, art. no. 421445
- 2 x Suction tubes, stainless steel (each 50 cm), art. no. 424842
- 1 x Crevice nozzle (22 cm long), art. no. 417011
- 1 x Connecting sleeve, stepped, art. no. 425719
- 1 x Dust nozzle 37 with hard floor insert, art. no. 414706

**Get your starbox**

The boxes are equipped with various accessories.  
**More information at [starmix.de/en/accessories](http://starmix.de/en/accessories)**



+



Fleece filter bag  
FBV 25/35  
5 pcs.

= **starbox II FBV 25/35**  
art. no. 444451

OR



PE emptying bag  
FBPE 25/35  
5 pcs.

= **starbox II FBPE 25/35**  
art. no. 444475

OR



Filter cassettes  
FKP 4300  
2 pcs.

= **starbox II FKP 4300**  
art. no. 444468

**★ OPTIONALES ACCESSORIES:****Adapter plate UNIFIX**

art. no. 449432  
(see page 12-13)

**Rail set (Smartfix)**

art. no. 445106



left and right, with fastening material  
(2 x velcro, 4 x spax screws)

**Accessory storage**

art. no. 445113

**Push handle FB 35**

art. no. 445137

**Nano filter**

art. no. 445106  
(see page 70)



The smooth, nano-coated surface and the larger distance between folds enable a higher volume flow over a longer period of time and in turn better filter cleaning.

**Especially suited to fine dusts containing fibre.**









## ISC "Compact": It just makes hard days easier.

On the construction site your full commitment is needed and in the workshop. Great flexibility is demanded. So you need a partner that can follow you everywhere. A powerful professional, mobile and easy to handle. You can't afford any errors, or any dust in the air!



ISC "Compact" series

## Compact profile for hard dust usage

The powerful classic, designed for use on construction sites with high dust emission: For vacuuming directly next to power tools. With the ISC, high performance is combined with high flexibility, ergonomics and compact dimensions for optimal usable volume. This makes the ISC the most-sold Starmix vacuum cleaner.

Warning, fine dust!  
Take care of your health.  
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### Your colleagues are delighted:

#### Marc D. (master of electrician) about the ISC:

"The vac is daily required for really hard work. Dust-free working with core drill bit, slit miller etc. is guaranteed at all times – absolutely awesome! The ISC is a powerful and simultaneously compact vacuum cleaner. It's just the right device for my daily workday!"



#### Timo M. (floor layer) about the ISC:

"The vacuum cleaner is a really clean business for the construction site. With its unlimited suction power, even the most dusty jobs are no longer a problem for me. I don't have to worry about my health anymore – thanks to the ISC Compact. I'm totally convinced by the ISC!"





ISC "Compact" series

## Compact dimensions, strong performance

The ISC "Compact" combines high performance and proven quality with clear lines in the housing design and improved ergonomics. The compact shape makes it easier to handle and improves the mobility of the vacuum cleaner.



Away with dust:  
filter cleaning during workbreaks  
ensures great performance!



### ★ High efficiency thanks to intelligent technology



#### Pulse filter cleaning

The automatic pulse filter cleaning cleans the filter during work breaks so well, that you can then continue to vacuum with an unchanged, high airflow.



#### Simple and safe handling

- Compact, rectangular construction: requires little room, light to carry, easy to store.
- Low centre of gravity: very stable and manoeuvrable.
- Robust wheels and castors: very easy and safe to move - even over "hill and dale".
- Bayonet connector: pull-tight connector between pipe and container.
- High filling volume: filters attached parallel to the motor axle require no additional space in the container.

**THE ADVANTAGES AT A GLANCE:**

- ✓ Pulse filter cleaning during work breaks
- ✓ Innovative filter technology
- ✓ Top quality "Made in Germany"
- ✓ Powerful high-performance motor



#### High-performance motor

High-speed motor with 15-20 % higher volumetric flow and vacuum than previous motors.



#### Container that has been proven effective at construction sites

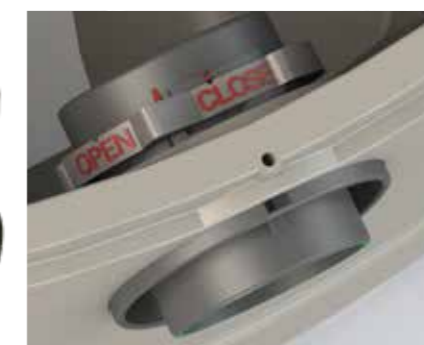
Light but extremely stabile double-walled construction (25 l). Smooth interior walls for easy emptying of dust, dirt and liquids. With a new container closure for a dust-free transport.



#### Safe dust disposal

The conversion from a fleece filter bag to PE bags requires different air conditions in the container. The new starmix rotary vane\* provides an optimal dust-filling capacity.

OPEN = PE emptying bag  
CLOSE = Fleece filter bag



\*only 25l containers



ISC "Compact" series

# Electric power tool vacuum cleaner (wet/dry)

The compact version for dust application. For vacuuming directly next to power tools during drilling, milling, grinding and sawing work in the workshop or on the construction site.



	<b>ISC L-1625</b> The powerful compact version for application with dust in the class "L"	<b>ISC L-1625 Top</b> With accessories for cleaning work	<b>ISC L-1650 Top</b> The large version with 50l container and push handle
Article no.	018744	018577	018584
Included in the scope of delivery			
<b>Accessory set</b>	<b>* EW, art. no. 044705</b>	<b>* EWS, art. no. 072401</b>	<b>* EWS, art. no. 072401</b>
Filter bag	1 unit FBV 25-35 after-sales art. no. 411231 (5 pcs.)	1 unit FBV 25-35 after-sales art. no. 411231 (5 pcs.)	1 unit FBV 45-55 after-sales art. no. 435039 (5 pcs.)
<b>Equipment</b>			
Main filter	FKP 4300 (polyester) Dust retention capacity: 99,9% art. no. 416069	FKP 4300 (polyester) Dust retention capacity: 99,9% art. no. 416069	FKP 4300 (polyester) Dust retention capacity: 99,9% art. no. 416069
Pulse filter cleaning	yes – during work breaks	yes – during work breaks	yes – during work breaks
Appliance socket	yes	yes	yes
Speed controller	yes, stepless	yes, stepless	yes, stepless
Filter control light	yes	yes	yes
Carrying handle with cable hook/ hose fixing - plug fixation	yes/yes, 1 velcro	yes/yes, 1 velcro	yes/yes, 1 velcro
Pre-selection switch volume flow/ hose ø	no	no	no
Signal tone if volume flow is too low	no	no	no
Rotary slider for use of the PE emptying bag	yes	yes	no
Fastener for intake socket	yes	yes	no
Soft start/after-run	yes	yes	yes
Water level detection	yes	yes	yes
Antistatic equipment	yes	yes	yes
Push handle	no	no	yes
Accessory storage	yes	yes	no
<b>Technical data</b>			
Power consumption (max.)	Watt	1600	1600
Volume flow (max.) measured at the motor head	l/s	75	75
Volume flow (max.) measured at the end of the hose	l/s	45	45
Vacuum (max.) measured at the motor head	mbar	280	280
Vacuum (max.) measured at the end of the hose	mbar	245	245
Container volume (max.) gross-dust-water	l	25/20/15 plastic	50/45/40 plastic
Sound pressure level	dB(A)	69	69
Dimensions	L x B x H	43 x 39 x 49 cm	59,5 x 46,5 x 96 cm
Weight	kg	12.2	18.3
Power cable length	m	8 (rubber, H05RR-F), red	8 (rubber, H05RR-F), red
Maximum reach	m	13.0	13.0 – 14.0

ISC "Compact" series

# Special vacuum cleaner class M

The specialist for dangerous fine dusts and organic dusts.



	<b>ISC M-1625 Safe</b> Dust retention capacity at least 99.99% according to dust class "M"	
Article no.	018591	
Included in the scope of delivery		
<b>Accessory set</b>	<b>* EW, art. no. 044705</b>	
Filter bag	3 units special PE emptying bag after-sales art. no. 425764 (5 pcs.)	
<b>Equipment</b>		
Main filter	FKP 4300 (polyester) Dust retention capacity: 99,9% art. no. 416069	
Pulse filter cleaning	yes – during work breaks	
Appliance socket	yes	
Speed controller	no	
Filter control light	yes	
Carrying handle with cable hook/ hose fixing - plug fixation	yes/yes, 1 velcro	
Pre-selection switch volume flow/ hose ø	yes / 21, 27, 35	
Signal tone if volume flow is too low	yes	
Rotary slider for use of the PE emptying bag	yes	
Fastener for intake socket	yes	
Soft start/after-run	yes	
Water level detection	yes	
Antistatic equipment	yes	
Push handle	no	
Accessory storage	no	
<b>Technical data</b>		
Power consumption (max.)	Watt	1600
Volume flow (max.) measured at the motor head	l/s	75
Volume flow (max.) measured at the end of the hose	l/s	45
Vacuum (max.) measured at the motor head	mbar	280
Vacuum (max.) measured at the end of the hose	mbar	245
Container volume (max.) gross-dust-water	l	25/20/15 plastic
Sound pressure level	dB(A)	69
Dimensions	L x B x H	45 x 39 x 49 cm
Weight	kg	12.2
Power cable length	m	8 (rubber, H07RN-F), red
Maximum reach	m	13.0

Warning, fine dust!  
Take care of your health.  
page 8/9

★ **Scope of delivery:**

**Accessory set EW\***  
(see page 75)



**Safe**

- 1 velcro  
**- Accessory set EW:\***

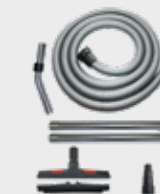


**Equipment**

1 x Suction hose with red air slide,  
ø 35 mm x 5 m, Art. no. 447193  
1 x connecting sleeve, stepped,  
Art. no. 425719

**Top**

- 1 velcro  
**- Accessory set EWS:\***



**Equipment**

1 x Suction hose with red air slide,  
ø 35 mm x 5 m, Art. no. 447193  
1 x Tube handle, stainless steel with  
supplementary air slide,  
Art. no. 421445  
2 x Suction tubes, stainless steel  
(each 50 cm), Art. no. 424842  
1 x Crevice nozzle (22 cm long)  
Art. no. 417011  
1 x Connection sleeve, stepped,  
Art. no. 425719  
1 x Dust nozzle 37 with hard-floor insert  
Art. no. 414706

★ **Optional accessories:**

**Adapter plate UNIFIX**

Art. no. 449432  
(see page 12-13)



Other accessories  
from page 77





## "uClean": If you have to be flexible.

Your working day is varied and diverse. As an universal professional, you carry out installation work for customers just as reliably as work in the workshop or the cleaning of work surfaces. And with the "uClean" on your side, you are exceptionally flexible. It ensures dust-free air and fun at work thanks to its clever details.

»»» **UCLEAN**



### "uClean" series

## The versatile version for universal use

The "uClean" is designed to be a **highly versatile universal** vacuum cleaner for flexible application with low to normal dust formation. Due to its great versatility, it can be used as a power tool vacuum cleaner or a cleaning vacuum cleaner for the workshop, work surfaces and machines. Its **comfortable handling** is characterised through the unique SmartStop, the blowing function and the best storage system for pipe and accessories – **Made in Germany!**

### Your colleagues are delighted:

#### Wolfgang D. (carpenter) about the uClean:

"The new uClean is small, light and handy. Even perfect for works on the roof truss. Ideal for the cleaning of larger surfaces, corners, joints, but also for smaller jobs with the electric power tool."



#### Tim K. (renovations) about the uClean:

"With the uClean it is finally possible to store all the accessories on the vacuum cleaner. No wobbliness or falling over any more, and the carry handle is superb. The journey to the building site can sometimes be long and up steps, but this makes it much easier."





"uClean" series

# New technology and clever ideas

The "uClean" series is based on the sophisticated starmix technology and quality levels "Made in Germany". The aim was to develop an universal vacuum cleaner that sets new standards in performance, ergonomics, comfort and working pleasure through intelligent details. The result: top performance and an attractive design with many exciting features.



That is the intelligent starmix technology. The uClean is great fun. Pure excitement for diverse professionals!

## ★ Technology for professionals



**Up to 20 % more performance: powerful high speed motor**  
Single-stage quick-running motor with high-speed turbine. Optimal efficiency with significantly higher flow volume and suction than comparable motors with similar wattage. The working life of the carbon brushes is over 800 hours!



**"SmartStop" – 3 in 1**  
Suitable as a locking brake for stable fixation of the uClean, as a handle for emptying the container and for protecting the chassis from damage as well as for overcoming obstacles.



**Up to 20 % more usable volume: Optimised container**  
Impact-resistant, robust container with optimal The gross-to-net ratio. Quick and easy to empty thanks to the smooth interior walls. Very stable with a low centre of gravity, large wheels and castors.



**Blowing function with bayonet coupling**  
The new blowing function with a sensational exhaust power of 215 km/h can be used parallel to vacuuming.



**Filter cleaning and appliance socket**  
Automatic pulse filter cleaning and appliance socket (only ARDL vacs) to connect the electric power tool.



**FAQ videos on important topics**  
The starmix Youtube channel also contains explanatory videos about the uClean devices as well as videos about the other vacuum cleaner series and sanitary products.

Extremely robust filter cassette

**THE ADVANTAGES AT A GLANCE:**

- ✓ Top performance from the high-speed turbine
- ✓ Great variability for diverse professionals
- ✓ Exciting handling due to clever details
- ✓ Top quality "Made in Germany"
- ✓ Modern, cool design
- ✓ Blowing function with 215 km/h



Further information under [www.starmix.de](http://www.starmix.de)

TOP FEATURE

**Transport walers with accessory storage**  
Simply clever: all of the standard accessories can be safely stored on the unit.



TOP FEATURE

**Best hose winding**  
It's so easy: wrap twice, lock once, done.





**Rocker switch: On/off**  
The I/O switch is easily accessible on the top side of the container. In addition, the switch-on on the vacuum cleaner via the power tool and the vibrating function can be selected.

TOP SERVICE

**Changing the cable**  
The red cable can be changed quickly and easily, simply by loosening the two screws.





"uClean" series

## Power tool vacuum cleaner (wet/dry)

The universal version with vibrating function for installation work on the construction site (concrete, stone, cement) and work with power tools in the workshop (wood, paint, lacquer) with non-health endangering dusts.  
For operation with or without a filter bag.



Warning, fine dust!  
Take care of your health.  
page 8/9

## ★ Scope of delivery:

Accessory set EHP\*  
(see page 75)



## ★ Optional accessories:

Antistatic suction hose  
(see page 85)



- ★ Permanently electrostatically conductive – no static charge
- ★ Non-marking – no stripes on the floor or on objects
- ★ Very flexible and resistant to abrasion
- ★ Patented construction and manufacturing processes
- ★ 360° rotatable connecting sleeve for tube and bayonet – no twisting

Article no.	020198	016344
<b>Included in the scope of delivery</b>		
<b>Accessory set</b>	*EHP art. no. 016542	*EHP art. no. 016542
Replacement filter	1 × FSS 1200 (foam material)	1 × FSS 1200 (foam material)
Filter bag	1 × FBV 20 after-sales art. no. 434827 (5 pcs.)	1 × FBV rd 30-35 after-sales art. no. 442761 (5 pcs.)
<b>Equipment</b>		
Main filter	FPPR 3600 (polyester) Dust retention capacity: 99,9 % art. no. 413464	FPPR 3600 (polyester) Dust retention capacity: 99,9 % art. no. 413464
Pulse filter cleaning	yes, during work breaks	yes, during work breaks
Appliance socket	yes	yes
Speed controller	stepless	stepless
Filter control light	yes	yes
Hose winding and connector fixture	yes	yes
Park position	yes	yes
Tilting running gear	no	no
Gentle start/after-running	yes/yes	yes/yes
Water level detection	yes	yes
Antistatically prepared	yes	yes
Rubber wheels and castors	no	no
SmartStop	yes	yes
Accessory storage	yes	yes
Blowing function	yes	yes
Push handle	no	no
<b>Technical data</b>		
Power consumption (max.)	Watt	1400
Volume flow (max.)	l/s	69
Vacuum (max.)	mbar	259
Container volume (max.)	l	20/16/10 plastic
gross - dust - water		
Sound pressure level	db(A)	72
Dimensions	L × B × H	43 × 39 × 55 cm
Weight	kg	9.3
Power cable length	m	8 (PVC), red
Reach	m	11.2 – 12.2

Article no.	017372	016351	016375
<b>Included in the scope of delivery</b>			
<b>Accessory set</b>	*EHP art. no. 016542	*EHP art. no. 016542	*EHP art. no. 016542
Replacement filter	1 × FSS 1200 (foam material)	1 × FSS 1200 (foam material)	1 × FSS 1200 (foam material)
Filter bag	1 × FBV rd 30-35 after-sales art. no. 442761 (5 pcs.)	1 × FBV 45-55 after-sales art. no. 435039 (5 pcs.)	1 × FBV 45-55 after-sales art. no. 435039 (5 pcs.)
<b>Equipment</b>			
Main filter	FPPR 3600 (polyester) Dust retention capacity: 99,9 % art. no. 413464	FPPR 7200 (polyester) Dust retention capacity: 99,9 % art. no. 413372	FPPR 7200 (polyester) Dust retention capacity: 99,9 % art. no. 413372
Pulse filter cleaning	yes, during work breaks	yes, during work breaks	yes, during work breaks
Appliance socket	yes	yes	yes
Speed controller	stepless	stepless	stepless
Filter control light	yes	yes	yes
Hose winding and connector fixture	yes	yes	yes
Park position	yes	no	no
Tilting running gear	no	no	yes
Gentle start/after-running	yes/yes	yes/yes	yes/yes
Water level detection	yes	yes	yes
Antistatically prepared	yes	no	yes
Rubber wheels and castors	yes	yes	yes
SmartStop	no	no	no
Accessory storage	yes	yes	yes
Blowing function	yes	yes	yes
Push handle	no	yes	yes
<b>Technical data</b>			
Power consumption (max.)	Watt	1400	1400
Volume flow (max.)	l/s	69	69
Vacuum (max.)	mbar	259	259
Container volume (max.)	l	35/30/23 stainless steel	45/40/33 plastic
gross - dust - water			
Sound pressure level	db(A)	72	72
Dimensions	L × B × H	46 × 44 × 70 cm	47 × 48 × 79 cm
Weight	kg	11.1	13.3
Power cable length	m	8 (PVC), red	8 (PVC), red
Reach	m	11.2 – 12.2	11.2 – 12.2



## NSG "uClean" series

## Power tool vacuum cleaner (wet/dry)

The universal version for installation work on the construction site (concrete, stone, cement) and work with electric power tools in the workshop (wood, paint, lacquer) with non-health endangering dusts.



Warning, fine dust!  
Take care of your health.  
page 8/9

**uClean ADL-1420 EHP**  
without filter cleaning for  
low/normal dust development,  
20l container



**uClean ADL-1432 EHP**  
without filter cleaning for low/  
normal dust development,  
32l container



**uClean ADL-1445 EHP**  
without filter cleaning for low/  
normal dust development,  
45l container



Article no.	016306	016313	016337
<b>Included in the scope of delivery</b>			
<b>Accessory set</b>	<b>*EHP art. no. 016542</b>	<b>*EHP art. no. 016542</b>	<b>*EHP art. no. 016542</b>
Replacement filter	1 x FSS 1200 (foam material)	1 x FSS 1200 (foam material)	1 x FSS 1200 (foam material)
Filter bag	1 x FBV 20 after-sales art. no. 434827 (5 pcs.)	1 x FBV rd 30-35 after-sales art. no. 442761 (5 pcs.)	1 x FBV 45-55 after-sales art. no. 435039 (5 pcs.)
<b>Equipment</b>			
Main filter	FPP 3600 (polyester) Dust retention capacity: 99,9 % art. no. 415109	FPP 3600 (polyester) Dust retention capacity: 99,9 % art. no. 415109	FPP 3600 (polyester) Dust retention capacity: 99,9 % art. no. 415109
Pulse filter cleaning	no	no	no
Appliance socket	yes	yes	yes
Speed controller	stepless	stepless	stepless
Filter control light	no	no	no
Hose winding and connector fixture	yes	yes	yes
Park position	yes	yes	no
Tilting running gear	no	no	no
Gentle start/after-running	yes/yes	yes/yes	yes/yes
Water level detection	yes	yes	yes
Antistatically prepared	yes	yes	no
Rubber wheels and castors	no	no	yes
SmartStop	yes	yes	no
Accessory storage	yes	yes	yes
Blowing function	yes	yes	yes
Push handle	no	no	yes
<b>Technical data</b>			
Power consumption (max.)	Watt 1400	1400	1400
Volume flow (max.)	l/s 69	69	69
Vacuum (max.)	mbar 259	259	259
Container volume (max.) gross - dust - water	l 20/16/10 plastic	32/28/21 plastic	45/40/33 plastic
Sound pressure level	db(A) 72	72	72
Dimensions	L x B x H 43 x 39 x 55 cm	43 x 39 x 64 cm	47 x 48 x 79
Weight	kg 8.5	8.6	12.8
Power cable length	m 8 (PVC), red	8 (PVC), red	8 (PVC), red
Reach	m 11.2 – 12.2	11.2 – 12.2	11.2 – 12.2

## "eSwift": For your quick use

"Do it quickly..." This sounds familiar to you? Quickly drill a hole, saw off a bar, vacuum up the construction site dirt or the water. And you must do it quickly – there's no time to waste. Vacuum cleaner out, connect it, go. Done.

**eSwift**





**"eSwift" Serie****Pragmatic, practical, good**

Compact, agile and robust. Perfect for quick use at home, in a hobby room or in the workshop and on the construction site. The powerful new all-purpose vacuum cleaner series "Made in Germany" was developed for exactly these reasons. Use-oriented accessories and sophisticated detail solutions make the new starmix all-purpose vacuum cleaner a helpful all-rounder – everywhere that cleanliness is important.



For quick use it's just the right thing!

**★ Practical equipment**

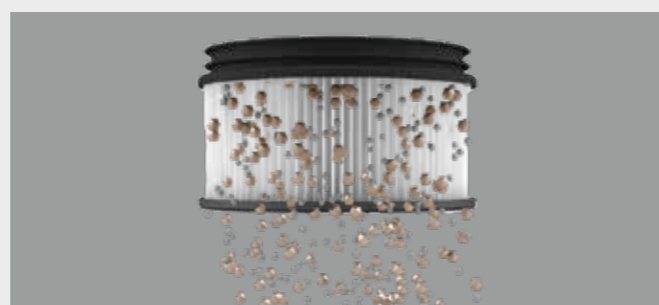
**Optimised container with up to 10% more volume**  
20l container with optimum gross/net ratio. The impact-resistant, robust construction is tuned to the field of application. Quick and easy to empty thanks to the smooth interior walls.



**More safety**  
The integrated hose winding and a power cable in signal red colour, provides additional protection against tripping.



**Compact design, large surface area**  
Light, compact and agile - good to transport and stable to move. The upper surface of the container offers lots of room for storing tools and auxiliary devices.



**Filter cleaning and appliance socket**  
Socket for connection of power tools. Manual filter cleaning for optimum results thanks to clean filter.



**Very stable and functional**  
The low centre of gravity of the container provides perfect stability. The built-in ramp eases movement over obstacles.

**Accessory compartment with 6 holding positions**  
All models have an accessory compartment for storing all accessories during work and transport.

**"eSwift" series****All-purpose vacuum cleaner (wet/dry)**

The all-rounder for hobby, workshop and the construction site.



**eSwift AR-1220 EHB**  
All-purpose vacuum cleaner with socket for power tool



**eSwift A-1232 EHB**  
Power tool vacuum cleaner with socket and manual filter cleaning

low dust emission



Article no.	016511	016528
<b>Included in the scope of delivery</b>		
<b>Accessory set</b>	<b>* EHB power tool (basic) art. no. 016603</b>	<b>* EHB power tool (basic) art. no. 016603</b>
Replacement filter	no	no
Filter bag	1 x FBV 20 after-sales art. no. 434827 (5 pcs.)	1 x FBV rd 30-35 after-sales art. no. 442761 (5 pcs.)
<b>Equipment</b>		
Main filter	FPPR 3600 (polyester) Dust retention capacity: 99,9% art. no. 413464	FP 3600 (cellulose) Dust retention capacity: 99,8% art. no. 411729
Pulse filter cleaning	yes	no
Appliance socket	yes	yes
Speed controller	no	no
Carry handle with cable and pipe coiling - connector fixture	yes	yes
Gentle start/after-running	yes/yes	yes/yes
Water level detection	yes	yes
Antistatically prepared	no	no
Push handle	no	no
Park position	yes	yes
Accessory storage	yes	yes
<b>Technical data</b>		
Power consumption (max.)	Watt	1200
Volume flow (max.)	l/s	70
Vacuum (max.)	mbar	210
Container volume (max.)	l	20/15/8
gross - dust - water		plastic
Sound pressure level	dB(A)	72.5
Dimensions	L x B x H	39.5 x 39 x 47.3 cm
Weight	kg	7.7
Power cable length	m	5 (PVC), red
Reach	m	8.2 - 9.2

**★ Scope of delivery:**

**Accessory set EHB power tools (basic)\***  
(see page 67)





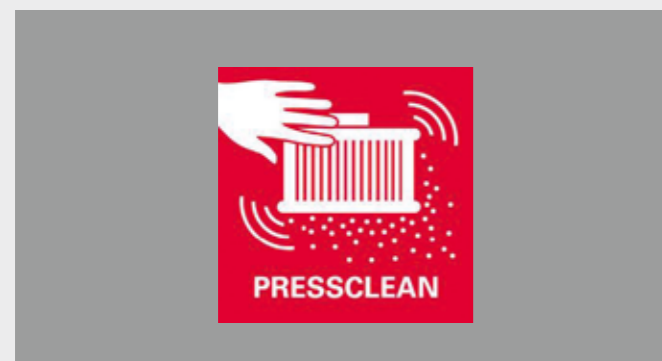
QUADRIX

## The cordless vacuum cleaner for just a quick moment

You know what it's like – especially with the assembly: a quick job here, a quick job there. Over the head, into confined spaces – you have to be quick and mobile. And more than ever, you don't have the time to haul things around or to look for sockets all the time. That's why our QUADRIX L 18V is lightweight, compact and cordless. And if the job takes a bit longer, the appliance just keeps going. The ideal secondary appliance. That way you really can get some work done.



### ★ Technology for professionals



#### PressClean

The QUADRIX L 18V has the manual filter cleaning system PressClean. By operating a switch and locking the hose, the filter is cleaned using a powerful flow of air during work breaks.



#### Battery packs

Lithium-ion batteries with a three-year guarantee. The battery's capacity indicator is displayed directly on the vacuum cleaner's control panel. Eco mode for extended operating time per battery charge; boost mode for maximum power.

#### Accessories

The full range of accessories are stored in the storage compartments in the vacuum cleaner so they don't take up much space.



#### Blowing function

Includes blowing function for blowing out, drying and discharging the air.



QUADRIX

## The specialist for mobile use

Includes manual filter cleaning PressClean and efficient Eco mode for an extended operating time per battery charge.



**QUADRIX L 18V Top**  
Commercial cordless vacuum cleaner with 2 x 18 V/5.2 Ah battery packs.

Article no.	020280		
Included in the scope of delivery			
Additional filter	-		
Filter bag	1 x FBV 7,5; art. no. 448794 (5 pcs.)		
Equipment			
Main filter	FF 3800 art. no. 448800		
Manual filter cleaning	yes (PressClean)		
Power regulation	2-level (Eco/Boost)		
Blowing function	yes		
Capacity indicator battery	yes		
Hose and accessories storage (incl. battery/charger)	yes, completely stowable in the vac		
Technical data			
Voltage	Volt	18	
Volume flow (max.)	l/s	35	
Vacuum (max.)	mbar	120	
Container volume (max.) gross - dust	l	7,5/5,5	
Dimensions	L x B x H	39 x 29,3 x 35,7 cm	
Weight (without equipment/battery)	kg	6,2	
Battery	Lithium ion battery pack (18V 5.2 Ah)		
Running time	<b>Eco mode:</b> approx. 25 min. <b>Boost mode:</b> approx. 15 min.		
Charging time	approx. 104 min.		

### ★ Scope of delivery:

**QUADRIX L 18V Top**  
Individual parts\*  
(from page 78)



2 x



#### Equipment

1 x Suction hose 27-300 (f. QUADRIX),  
ø 32 mm x 3 m, art. no. 448787  
with connection sleeve, Ø 27 mm x 3 m  
crevice nozzle, suction nozzle, strap  
1 x Fleece filter bag FBV 7,5, art. no. 448794  
1 x Folded filter FF 3800, art. no. 448800  
2 x Battery pack Li-Power 18V 5.2 Ah, art. no. 448824  
1 x Standard charger ASC 55, art. no. 448848  
1 x starmix bohrifix



## CONTENT

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Patented, efficient disc brush technology.70 Cordless battery broom **NEW**


## 72 ACCESSORIES

The right equipment for any dirt.

**Inside or outside.** At home or in the workplace.  
For wet or dry vacuuming. For large areas or tight corners. For fine dust or coarse dirt. Or even a rusty boiler. No matter what is the order of the day, starmix cleaning equipment make cleaning easy and thorough.



# Decision support

Series/products	Application areas							Features and technical data																
	Hotel and office cleaning	House and home	Garage / Workshop / Hobby	Outside area / coarse dirt	Cleaning large areas and buildings	Operational and machine cleaning	Wet-dry cleaning	Rubber wheels and castors	Noise insulated	Water level detection	Speed controller	Antistatically prepared	Accessory compartment	Brake (y/n)	Max. Power consumption/Watts	Vacuum (mbar, measured at the motor head)	Volume flow (l/s, measured at the motor head)	Max. Container volume/litres	Weight/kg	Reach (including cable and pipe)	Sound volume dB (A)	Filter surface area cm <sup>2</sup>	Page	
<b>uClean</b>																								
 uClean 1420 HK		●	●			●		n	n	y	n	n	y	n	1400	259	69	20	7.8	9.75–10.75	72.5	3600	50	
uClean 1432 HK		●	●			●		n	n	y	n	n	y	n	1400	259	69	32	8.1	9.75–10.75	72.5	3600	50	
uClean 1432 ST			●	●	●	●		n	n	y	n	n	y	n	1400	259	69	32	8.1	9.75–10.75	72.5	3600	51	
uClean LD-1420 HMT	●	●		●		●		y	y	y	2-level	n	y	y	1400	259	69	20	8.0	15.2–16.2	68.5	3600	52	
uClean LD-1432 HMT	●	●		●		●		y	y	y	2-level	n	y	y	1400	259	69	32	8.3	15.2–16.2	68.5	3600	52	
uClean LD-1435 PZ				●	●	●		y	y	y	2-level	n	y	y	1400	259	69	35	9.9	15.2–16.2	68.5	3600	53	
uClean LD-1445 PZ				●	●	●		y	y	y	2-level	n	y	y	1400	259	69	45	12.6	15.2–16.2	68.5	3600	53	
uClean LD-1422 HZ plus		●				●		y	y	y	2-level	n	y	y	1400	259	69	22	9.6	15.2–16.2	69.5	3600	53	
<b>GS</b>																								
GS 2078 PZ				●	●	●		n	n	y	n	y	n	n	2400	205	108	78	23.5	11.7–12.7	77		55	
GS 3078 PZ				●	●	●		n	n	y	n	y	n	n	3600	205	162	78	26.0	11.7–12.7	79		55	
<b>eSwift</b>																								
eSwift 1220 HK		●	●			●		n	n	y	n	n	y	n	1200	210	70	20	7.3	6.75–7.75	72.5	3600	59	
eSwift 1232 HK		●	●			●		n	n	y	n	n	y	n	1200	210	70	32	7.4	6.75–7.75	72.5	3600	59	
<b>Special vacuum cleaners</b>																								
uClean PA-1455 KFG FW						●		n	n	y	2-level	y	n	y	2200	248	61	55	22.0	18.0–50.0	73	3600	57	
uClean PA-1455 KFG						●		n	n	y	2-level	y	n	y	2200	248	61	55	20.3	18.0–50.0	73	3600	57	
* for large volumes of liquid																								
<b>TS</b>																								
TS 711 BASIC	●	●						y	y	n	Eco mode	n	y	n	700	210	38	11	4.2	13.0	77		61	
TS 714 RTS HEPA	●	●						y	y	n	Eco mode	n	y	n	700	210	42	14	4.9	13.0	73		61	

CLEANING



## "uClean": For all those who work professionally.

This is the vacuum cleaner for all those who want professional cleanliness under the widest range of conditions. The "uClean" ensures this in the car, in the workshop, all round machinery, on the building site or wherever cleaning jobs arise in the wet and dry area. It is the ideal partner for professionals who want to be prepared for everything.

### "uClean" series

## As versatile and individual as life

The "uClean" is designed to be a highly powerful and versatile universal vacuum cleaner for a large number of applications. Due to its great versatility, it can be used as a vacuum cleaner for buildings, large areas, coarse dirt and also machines. Its comfortable handling is particularly characterised through the unique SmartStop, the blowing function and the best storage system for accessories.

#### Uwe S. about the uClean:

"It's absolutely fantastic how much suction power this appliance has. Even damp, stubborn dirt in my light well was no problem at all for the uClean with coarse dirt accessories. In future I will only use starmix, I wouldn't have managed that with my other vacuum cleaner!"



#### Stefan A. about the uClean:

"Spilled drilling emulsion? No problem with this wet and dry vacuum cleaner. Also blowing dirt out of joints works excellent when using the blowing function. The uClean ensures a totally clean work area for the next day."





"uClean" series

## Reliable technology and clever details

The "uClean" series is based on the sophisticated starmix technology and quality level "Made in Germany". The aim was to develop a universal vacuum cleaner that sets new standards in performance, ergonomics, comfort and working pleasure through intelligent details. The result: top performance and an ergonomic, attractive design with many exciting features.



That is the intelligent starmix technology. The new version is great fun. Pure delight for professionals!

### ★ Power technology for professionals



**Up to 20 % more performance: powerful high speed motor**

Single-stage quick-running motor with new high-speed turbine. Optimal efficiency with significantly higher flow volume and suction than comparable motors with similar wattage. The working life of the carbon brushes is over 800 hours!



**Blowing function with bayonet coupling**

The new blowing function with a sensational exhaust power of 215 km/h can even be used parallel to vacuuming. Just insert a starmix suction hose (only intermateable hoses) into the bayonet coupling, lock it in and away you go.



**Up to 20 % more usable volume: Optimised container**

Impact-resistant, robust container with optimal The gross-to-net ratio. Quick and easy to empty thanks to the smooth interior walls. Very stable with a low centre of gravity, large wheels and castors.



**"SmartStop" – 3 in 1\***

Suitable as a locking brake for stable fixation of the uClean, as a handle for emptying the container and for protecting the chassis from damage as well as for overcoming obstacles.

\*only on marked appliances



CLEANING



FAQ Videos

**Stable all round**  
– Bigger wheels (130 mm) for perfect easy rolling. Rubberised wheels for quiet and scratch-free work (only LD)  
– With optimised wheeled crossbeam.



**ECO switch / rocker switch ON / OFF**  
The I/O switch is easily accessible on the top side of the container. The LD appliances also feature a power-saving function (ECO mode).



**TOP FEATURE**



**Accessory storage**  
Simply clever: All of the standard accessories can be safely stored on the container.

**TOP FEATURE**



**Best hose winding**  
It's so easy: wrap twice, lock once, done.



"uClean" series

## Vacuum cleaner (wet/dry)

The universal cleaners with basic equipment for wet and dry cleaning of buildings (garage, commerce, household) and workshop and for coarse dirt applications.



**uClean 1420 HK**  
The lightweight vacuum cleaner (wet-dry) with 20l container

**uClean 1432 HK**  
The lightweight vacuum cleaner (wet-dry) with 32l container



**uClean 1432 ST**  
The coarse dirt vacuum cleaner (wet-dry) with 32l container

## ★ Scope of delivery:

**Accessory set HK house/hobby\***  
(see Page 76)



**Accessory set ST Standard 49 mm (coarse dirt)\***  
(see Page 76)



Other accessories  
from page 77

Article no.	016221	016238
<b>Included in the scope of delivery</b>		
<b>Accessory set</b>	<b>*HK art. no. 044101</b>	<b>*HK art. no. 044101</b>
Replacement filter	1 × FSS 1200 (foam material)	1 × FSS 1200 (foam material)
Filter bag	1 × FBV 20 after-sales art. no. 434827 (5 pcs.)	1 × FBV rd 30–35 after-sales art. no. 442761 (5 pcs.)
<b>Equipment</b>		
Main filter	FP 3600 (cellulose) Dust retention capacity: 99,8% art. no. 411729	FP 3600 (cellulose) Dust retention capacity: 99,8% art. no. 411729
Pulse filter cleaning	no	no
Appliance socket	no	no
Speed controller	no	no
Hose winding and connector fixture	yes	yes
Park position	yes	yes
Gentle start/after-running	no	no
Water level detection	yes	yes
Antistatically prepared	no	no
Noise reduction	no	no
Push handle	no	no
Rubber wheels and castors	no	no
SmartStop	no	no
Accessory storage	yes	yes
Blowing function	yes	yes
<b>Technical data</b>		
Power consumption (max.)	Watt	1400
Volume flow (max.)	l/s	69
Vacuum (max.)	mbar	259
Container volume (max.) gross-dust-water	l	20/16/10 plastic
Sound pressure level	dB(A)	72.5
Dimensions	L × B × H	39.5 × 39 × 55 cm
Weight	kg	7.8
Power cable length	m	8 (PVC), red
Reach	m	9.75 – 10.75
Application areas		– House and home – Garage / workshop / hobby

Article no.	016245
<b>Included in the scope of delivery</b>	
<b>Accessory set</b>	<b>*ST art. no. 044309</b>
Replacement filter	1 × FSS 1200 (foam material)
Filter bag	1 × FBV rd 30–35 after-sales art. no. 442761 (5 pcs.)
<b>Equipment</b>	
Main filter	FP 3600 (cellulose) Dust retention capacity: 99,8% art. no. 411729
Pulse filter cleaning	no
Appliance socket	no
Speed controller	no
Hose winding and connector fixture	yes
Park position	yes
Gentle start/after-running	no
Water level detection	yes
Antistatically prepared	no
Noise reduction	no
Push handle	no
Rubber wheels and castors	no
SmartStop	no
Accessory storage	yes
Blowing function	yes
<b>Technical data</b>	
Power consumption (max.)	Watt
Volume flow (max.)	l/s
Vacuum (max.)	mbar
Container volume (max.) gross-dust-water	l
Sound pressure level	dB(A)
Dimensions	L × B × H
Weight	kg
Power cable length	m
Reach	m
Application areas	



"uClean" series

## Vacuum cleaner (wet/dry)

The universal cleaners with professional equipment for demanding cleaning of buildings (office, commerce, industry, household), large areas/halls, machinery and especially boilers. The appliances are distinguished by an additional noise insulation feature and an ability to select eco mode.

**uClean LD-1420 HMT**

The lightweight vacuum cleaner (wet-dry) with 20l container and large reach

**uClean LD-1432 HMT**

The lightweight vacuum cleaner (wet-dry) with 32l container and large reach

**uClean LD-1435 PZ**

The vacuum cleaner (wet-dry) for cleaning buildings, large areas and machinery, 35l container

**uClean LD-1445 PZ**

The vacuum cleaner (wet-dry) for cleaning buildings, large areas and machinery, 45l container

**uClean LD-1422 HZ plus**

The vacuum cleaner (wet-dry) especially for heating boilers

★ **Scope of delivery:**
**Accessory set HMT Household\***  
(see page 76)

**Accessory set PZ Professional accessories\***  
(see page 76)

**Accessory set HZ Plus\***  
(from page 77)


Other accessories  
from page 77

Article no.	016269	016276
<b>Included in the scope of delivery</b>		
<b>Accessory set</b>	<b>*HMT art. no. 003009</b>	<b>*HMT art. no. 003009</b>
Replacement filter	1 × FSS 1200 (foam material)	1 × FSS 1200 (foam material)
Filter bag	1 × FBV 20 after-sales art. no. 434827 (5 pcs.)	1 × FBV rd 30–35 after-sales art. no. 442761 (5 pcs.)
<b>Equipment</b>		
Main filter	FPP 3600 (polyester) Dust retention capacity: 99,9% art. no. 415109	FPP 3600 (polyester) Dust retention capacity: 99,9% art. no. 415109
Pulse filter cleaning	no	no
Appliance socket	no	no
Speed controller	2-level with eco mode	2-level with eco mode
Hose winding and connector fixture	yes	yes
Park position	yes	yes
Gentle start/after-running	yes/no	yes/no
Water level detection	yes	yes
Antistatically prepared	no	no
Noise reduction	yes	yes
Push handle	no	no
Rubber wheels and castors	yes	yes
SmartStop	yes	yes
Accessory storage	yes	yes
Blowing function	yes	yes
<b>Technical data</b>		
Power consumption (max.)	Watt	1400
Volume flow (max.)	l/s	69
Vacuum (max.)	mbar	259
Container volume (max.) gross-dust-water	l	20/16/10 plastic
Sound pressure level	dB(A)	68.5
Dimensions	L × B × H	43 × 39 × 55 cm
Weight	kg	8.0
Power cable length	m	12 (PVC), red
Reach	m	15.2 – 16.2
Application areas		– Hotel and office – House and home – Cleaning large areas / buildings

Article no.	017389	016283	016399
<b>Included in the scope of delivery</b>			
<b>Accessory set</b>	<b>*PZ art. no. 003108</b>	<b>*PZ art. no. 003108</b>	<b>*HZ Plus, only individual parts can be ordered</b>
Replacement filter	1 × FSS 1200 (foam material)	1 × FSS 1200 (foam material)	–
Filter bag	1 × FBV rd 30–35 after-sales art. no. 442761 (5 pcs.)	1 × FBV 45–55 after-sales art. no. 435039 (5 pcs.)	1 × FBV 20 after-sales art. no. 434827 (5 pcs.)
<b>Equipment</b>			
Main filter	FPP 3600 (polyester) Dust retention capacity: 99,9% art. no. 415109	FPP 3600 (polyester) Dust retention capacity: 99,9% art. no. 415109	FPP 3600 (polyester) Dust retention capacity: 99,9% art. no. 415109
Pulse filter cleaning	no	no	no
Appliance socket	no	no	no
Speed controller	2-level with eco mode	2-level with eco mode	2-level with eco mode
Hose winding and connector fixture	yes	yes	yes
Park position	yes	no	yes
Gentle start/after-running	yes/no	yes/no	yes/no
Water level detection	yes	yes	yes
Antistatically prepared	no	no	no
Noise reduction	yes	yes	yes
Push handle	no	yes	no
Rubber wheels and castors	yes	yes	yes
SmartStop	no	no	no
Accessory storage	yes	yes	yes
Blowing function	yes	yes	yes
<b>Technical data</b>			
Power consumption (max.)	Watt	1400	1400
Volume flow (max.)	l/s	69	69
Vacuum (max.)	mbar	259	259
Container volume (max.) gross-dust-water	l	35/30/23 stainless steel	45/40/33 plastic
Sound pressure level	dB(A)	68.5	68.5
Dimensions	L × B × H	46 × 44 × 70 cm	47 × 48 × 79 cm
Weight	kg	9.9	12.6
Power cable length	m	12 (PVC), red	12 (PVC), red
Reach	m	15.2 – 16.2	15.2 – 16.2
Application areas		– Cleaning large areas / buildings – Industrial and machine cleaning	– Cleaning large areas / buildings – Industrial and machine cleaning



GS series

# The power packages for tough jobs

Robust, durable and the highest power level: that is what distinguishes the vacuum cleaners in the GS series. These vacuum cleaners, developed especially for cleaning large areas and machinery, feature particularly large containers and tailored running gear. Combined with special accessory sets, the GS vacuum cleaner overcomes any challenge encountered during everyday work.



★ Power technology for professionals



**Motors**

Powerful bypass motors with outputs of 2,400 to 3,600 Watts. The vacuum cleaner models have 2 or 3 motors! More flow volume is generated, thus achieving even better suction power.



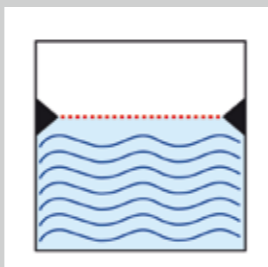
**Tilting running gear**

The vacuum cleaners in the GS series are equipped with tilting running gear and a comfortable push handle. A genuine help for demanding cleaning.

**Water filter WF 3200**  
Ideal for use with water sucking. Holds back coarse dirt.



**Water stop**  
Pneumatic water level detection. As soon as the maximum level is reached during wet vacuuming, the suction power is interrupted.



GS series

# Vacuum cleaners for cleaning large areas and machinery

The special vacuum cleaners for demanding wet and dry cleaning of large areas, halls and machinery.



**GS 2078 PZ**

The special vacuum cleaner (wet-dry) with steel container and 2 motors

**GS 3078 PZ**

The special vacuum cleaner (wet-dry) with steel container and 3 motors

Article no.	004020	003924
<b>Included in the scope of delivery</b>		
<b>Accessory set</b>	<b>*PZ, art. no. 003108</b>	<b>*PZ, art. no. 003108</b>
Replacement filter	1 x polyester filter bag FSP 3100 after-sales art. no. 413501	1 x polyester filter bag FSP 3100 after-sales art. no. 413501
Paper filter bag	1 x FB 78, art. no. 413044 (5 pcs.)	1 x FB 78, art. no. 413044 (5 pcs.)
<b>Equipment</b>		
Main filter	FPP 3200 (polyester) Dust retention capacity: 99,8% art. no. 413525	FPP 3200 (polyester) Dust retention capacity: 99,8% art. no. 413525
Pulse filter cleaning	no	no
Speed controller	no	no
Appliance socket	no	no
Noise reduction	no	no
Carry handle with cable hook	yes/no	yes/no
Tilting running gear	yes	yes
Gentle start/after-running	no	no
Water level detection	yes	yes
Antistatically prepared	no	no
Accessory storage	no	no
<b>Technical data</b>		
Power consumption (max.)	Watt 2400	3600
Volume flow (max.)	l/s 2 x 54 = 108 (2 motors)	3 x 54 = 162 (3 motors)
Vacuum (max.)	mbar 205	205
Container volume (max.)	l 78/57/50	78/57/50
gross-dust-water	steel	steel
Sound pressure level	dB(A) 77	79
Dimensions	L x B x H 61.5 x 63 x 97 cm	61.5 x 63 x 97 cm
Weight	kg 23.5	26.0
Power cable length	m 8,5 (PVC)	8.5 (PVC)
Reach	m 11.7 – 12.7	11.7 – 12.7

★ Scope of delivery:

Accessory set PZ  
Professional accessories\*  
(see page 76)



★ Optional accessories:

FS 2078/3078  
(see page 73+76)



Water filter WF 3200  
(see page 81)



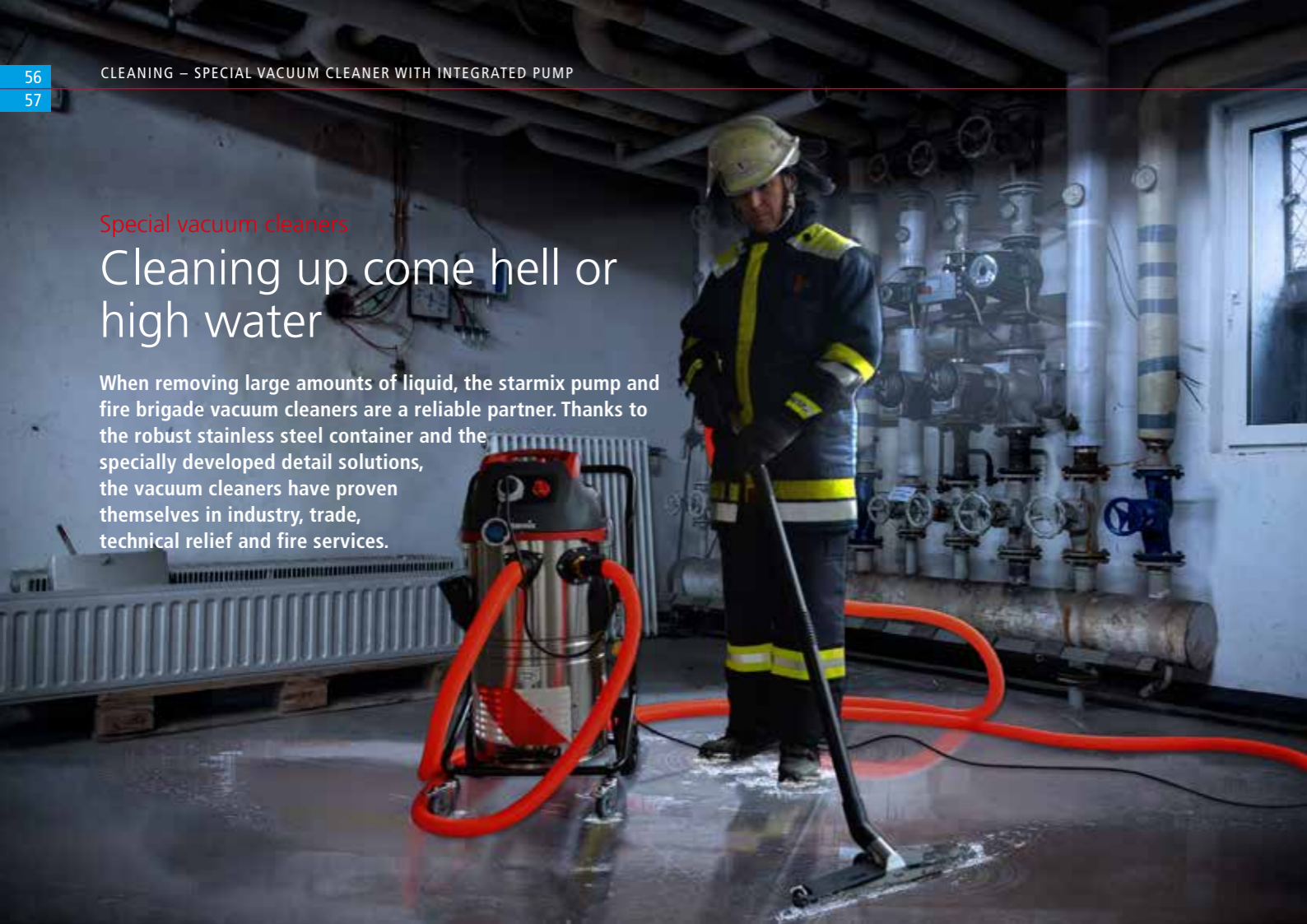
Other accessories  
from page 77



Special vacuum cleaners

# Cleaning up come hell or high water

When removing large amounts of liquid, the starmix pump and fire brigade vacuum cleaners are a reliable partner. Thanks to the robust stainless steel container and the specially developed detail solutions, the vacuum cleaners have proven themselves in industry, trade, technical relief and fire services.



★ The starmix pump vacuum cleaners

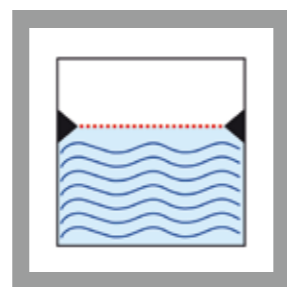
**Pump vacuum cleaner advantages:**

- Drain hose connection with C-coupling
- FI circuit breaker in the power supply lead
- Special filter bags
- Special application-oriented accessories
- Pump can be completely removed and the container sealed. It is therefore possible to use the appliance as a normal wet-dry vacuum cleaner.

**Firefighting vacuum cleaner advantages:**

- Water pressure-tight protective contact socket (IP68)
- Water pressure-tight protective contact plug connector (IP68)
- Red suction and drain hose (C coupling included in the scope of delivery)
- Reflector safety stripes

Top quality "Made in Germany"



**Water stop**

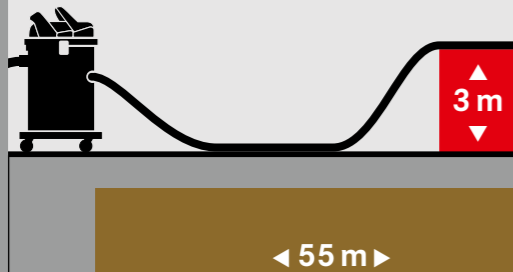
Pneumatic water level detection. As soon as the maximum level is reached during wet vacuuming, the suction power is interrupted.

**Features of the pump::**

- Dry running safe, maintenance-free, with thermal winding protection
- With built-in float switch
- Motor housing and rotor shaft made of stainless steel
- Handle, pump housing and protective screen made of 30 % glass fiber reinforced plastic

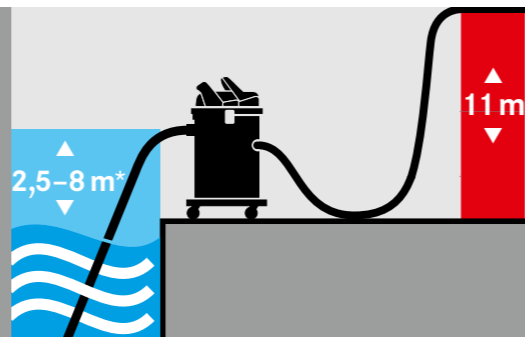
**Integrated pump/ Maximal delivery distance**

The integrated boom pump pumps the extracted liquid out of the container. The maximum delivery distance in this respect is 50 metres with a maximum height difference of 3 metres.



**Maximum pumping height / delivery height**

The max. pumping height\* is up to 2.5 metres if only water (without air) is sucked in – the pipe is completely under water (= full suction mode). The max. pumping height\* is up to 8 metres if a mixture of water and air is sucked in (= slurp mode).



Special vacuum cleaners

# Water vacuum cleaner with integrated pump

The special water vacuum cleaners for removing large amounts of liquid.



**uClean PA-1455 KFG**  
The water vacuum cleaner with integrated pump



**uClean PA-1455 KFG FW\*\***  
The water vacuum cleaner with integrated pump and water pressure-tight socket/plug connector

Article no.	019086	019093
<b>Included in the scope of delivery</b>		
<b>Accessories</b>	<b>*Pump vacuum cleaner individual parts</b>	<b>*Fire service vacuum cleaner individual parts</b>
Replacement filter	1 x FSS 1200 (foam) art. no. 413297	1 x FSS 1200 (foam) art. no. 413297
Filter bag	1 x FSN 80, art. no. 424071	1 x FSN 1000, art. no. 424569
<b>Equipment</b>		
Main filter	FPP 3600 (polyester) Dust retention capacity: 99.9% art. no. 415109	FPP 3600 (polyester) Dust retention capacity: 99.9% art. no. 415109
Pulse filter cleaning	no	no
Appliance socket	yes	yes, water-tight (IP68)
Speed controller	yes, 2-level with eco mode	yes, 2-level with eco mode
Hose winding / connector fixture	yes/yes	yes/yes
FI circuit breaker	yes	yes
Tilting running gear	yes	yes
Gentle start/after-running	yes	yes
Water level detection	yes	yes
Antistatically prepared	yes	yes
Integrated immersion pump	yes	yes
<b>Technical data</b>		
Power consumption (max.)	Watt 2210 incl. pump	2210 incl. pump
Volume flow (max.)	l/s 69	69
Vacuum (max.)	mbar 259	259
Container volume (max.)	l 55/50/43	55/50/43
gross-dust-water	stainless steel	stainless steel
Sound pressure level	dB(A) 73 ± 2	73 ± 2
Dimensions	L x B x H 52 x 51 x 100 cm	52 x 51 x 93 cm
Weight (incl. submersible pump, net)	kg 26.5	26
Power cable length	m 8.40 (H07RN-F, incl. FI circuit breaker)	8.40 (H07RN-F, incl. FI circuit breaker)
Reach	m 13.0 – 14.0	13.0 – 14.0
Pump delivery output (max.)	l/min 330	330
Pumping height in full suction mode	m 2.5	2.5
Pumping height in slurping mode	m 5 – 8	5 – 8
Delivery height (max.)	m 11	11
Delivery distance (max.)	m 55	55

★ **Scope of delivery:**

**Pump vacuum cleaner individual parts\*** (see from page 82)



**Fire brigade vacuum cleaner individual parts\*** (see from page 82 ff.)



Other accessories from page 77



"eSwift" series  
**Pragmatic, practical, good**

Compact, agile and robust. Perfect for quick use at home, in a hobby room or in the workshop. The powerful, new all-purpose vacuum cleaner series "Made in Germany" was developed for exactly these reasons. Use-orientated accessories and sophisticated detailed solutions, make the new starmix all-purpose vacuum cleaner a helpful all-rounder – everywhere that cleanliness is important.



★ **Practical equipment**



**Optimised container with up to 10% more volume**  
20l container with optimum gross/net ratio. The impact-resistant, robust construction is tuned to the field of application. Quick and easy to empty thanks to the smooth interior walls.



**Compact design, large surface area**  
Light, compact and agile - good to transport and stable to move. With practical detailed solutions such as the cable and hose coiling and connector fixture which are integrated into the carry handle. The upper surface of the container offers lots of room for storing tools and auxiliary devices.

**Accessory compartment with 6 holding positions**  
All models have an accessory compartment for storing all accessories during work and transport.



**Very stable and functional**  
The low centre of gravity of the container provides perfect stability. The built-in ramp makes it easier to move over obstacles. A red mains cable offers protection against tripping.



"eSwift" series  
**All-purpose vacuum cleaner (wet/dry)**

The all-rounder for hobby, workshop and garage.



For quick use it is just the right thing!



Article no.	016535	016504
<b>Included in the scope of delivery</b>		
<b>Accessory set</b>	* HK art. no. 044101	* HK art. no. 044101
Replacement filter	no	no
Filter bag	1 x FBV 20 after-sales art. no. 434827 (5 pcs.)	1 x FBV rd 30-35 after-sales art. no. 442761 (5 pcs.)
<b>Equipment</b>		
Main filter	FP 3600 (cellulose) Dust retention capacity: 99,8% art. no. 411729	FP 3600 (cellulose) Dust retention capacity: 99,8% art. no. 411729
Pulse filter cleaning	no	no
Appliance socket	no	no
Speed controller	no	no
Carry handle with cable and hose coiling - connector fixture	yes	yes
Gentle start/after-running	no	no
Water level detection	yes	yes
Antistatically prepared	no	no
Push handle	no	no
Park position	yes	yes
Accessory storage	yes	yes
<b>Technical data</b>		
Power consumption (max.)	Watt	1200
Volume flow (max.)	l/s	70
Vacuum (max.)	mbar	210
Container volume (max.)	l	20/15/8
gross-dust-water		plastic
Sound pressure level	dB(A)	72.5
Dimensions	L x B x H	39.5 x 39 x 47.3 cm
Weight	kg	7.3
Power cable length	m	5 (PVC), red
Reach	m	6.75 - 7.75

★ **Scope of delivery:**

**Accessory set HK house/hobby\***  
(see page 67)





TS series

## Quiet, compact, powerful

The TS vacuum cleaners with integrated noise insulation. The powerful suction performance and the compact and lightweight design makes it possible to work efficiently during business hours.



### ★ Power technology for professionals



#### Convenient to work with

Due to the large foot-operated on/off switch and sideways park position for the vacuum accessories. Possible to easily transport with one hand.



#### Quiet and safe all round

Elastic bumpers and rubber rollers for quiet easy rolling. Bottom runner to help it roll off door sills almost barrier-free.

Extra long wheel base  
For optimal safety against overturning.



#### Cable hook

The new lockable hook allows the cable to be safely and reliably secured when transporting the vacuum cleaner. Light and easy to operate thanks to the pivot joint.



#### Power regulation

For efficient dirt pick-up, the suction power can be adjusted to any floor covering.



#### Accessory

4 accessory slots on the back of the vacuum cleaner as well as side parking positions for nozzles.



Dry vacuum cleaner

## Dry vacuum cleaner

The dry vacuum cleaners are optimal for dry cleaning in the hotel, catering and office sector. With the additional HEPA filter a plus for the cleaning, especially for people who are allergic to house dust.



#### TS 711 BASIC

The new commercial entry-level dry vacuum cleaner.



#### TS 714 RTS HEPA

The small dry vacuum cleaner with noise insulation

Small, powerful, agile – specially for dry cleaning.



Article no.	020020	017716	
Included in the scope of delivery			
<b>Accessory set</b>	<b>*BASIC, only individual parts can be ordered</b>	<b>*RTS, only individual parts can be ordered</b>	
Replacement filter	no	Exhaust filter TS EPA E12	
Filter bag	1 × FBV 11/HEPA after-sales art. no. 444154 (10 pcs.)	1 × FBV 14 HEPA after-sales art. no. 444154 (10 pcs.)	
<b>Equipment</b>			
Main filter	Fleece filter bag FBV 11/14 HEPA (vacuuming only with inserted filter bag!)	Fleece filter basket TS	
Pulse filter cleaning	no	no	
Appliance socket	no	no	
Eco mode	yes	yes	
Noise reduction	yes	yes	
Carry handle with lockable cable hook	yes	yes	
Park position for floor nozzle	yes	yes	
Gentle start/after-running	no	no	
Water level detection	no	no	
Antistatically prepared	no	no	
Accessory storage	yes	yes	
<b>Technical data</b>			
Power consumption (max.)	Watt	700	700
Volume flow (max.)	l/s	38	42
Vacuum (max.)	mbar	210	210
Container volume (max.) gross-dust	l	11 plastic	14 plastic
Sound pressure level	dB(A)	66	62
Sound power level	dB(A)	77	73
Dimensions	L × B × H	35 × 28.5 × 38.8 cm	40 × 29 × 40.5 cm
Weight	kg	4.2	4.9
Power cable length	m	10 (PVC)	10 (PVC)
Reach	m	13.0	13.0

### ★ Scope of delivery:

#### Accessory set BASIC\* (from page 82)

**Equipment**  
1 × Suction hose 32 mm ø × 2,0 m (incl. tube handle), art. no. 446196  
2 × Suction tube alu 32–50 TS (each 50 cm), art. no. 436425  
1 × Universal nozzle 28 TS (reversible), art. no. 446202

#### Accessory set RTS\* (from page 82)



**Equipment**  
1 × Suction hose 32–250 TS (incl. tube handle), ø 32 mm × 2,5 m, art. no. 436326  
2 × Suction tube alu TS 32–50 (each 50 cm), art. no. 436425  
1 × Professional universal nozzle 27 TS (reversible), art. no. 426402  
1 × Crevice nozzle 23 TS (23 cm long), art. no. 436388  
1 × Upholstery nozzle 10 TS (10 cm wide), art. no. 436418



## Haaga sweepers: only the best is good enough

The comprehensive range of Haaga sweepers has something to offer for both facility management companies and consumers looking for an appliance to clean their garden paths alike.



MADE

IN

GERMANY

### Power sweepers

## Powerful, efficient, robust

Sweeping larger paved areas with a broom is time-consuming and energy-sapping. starmix power sweepers manage this work quicker and easier. The patented disc brush technology makes them especially efficient, quiet and handy. Unlike the otherwise conventional roller power sweepers, the disc brushes pick up wet and dry foliage, stones, flat and bulky waste in front of the machine. Nothing obstructs the picking up of dirt. Compact dimensions and the low weight ensure simple, fatigue-free work.

### The strong partner for all requirements:

#### Natalie D. about the haaga 355:

"The height-adjustable handle allows to set the optimal height for me. So sweeping with the haaga 355 is really enjoyable. Thanks to the fine brush roller, you get a really great sweeping result around the house and in the garden."



#### Bobby B. about the haaga 497 Profi:

"No way to take a broom in the hand when sweeping larger areas. With the haaga 497 Profi it is so easy. Pull out, one time over it and then back in the corner. Clean, quick and you have time for the next task."



Video of the sweepers



Haaga sweeper series

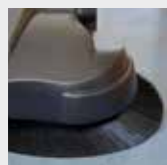
# Proven system with improved technology

Haaga sweepers are characterized by a very easy handling and high quality. With the unique disc brush system dirt is not simply pushed in front of the sweeper but directly into the dirt container. The turbo sweeping system with an additional brush picks up dirt twice in one step. "Made in Germany" is to us an absolute quality standard and therefore a 'must' criterion – even when it comes to sweepers.

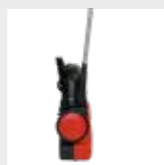


Sweeping is really fun with the haaga technology!

## ★ Features that make sweeping more easy



**Overlaying disc brushes on both sides:** for a better sweeping performance. Even there it is no problem to sweep underneath edges.



**Vertical storage**  
The handle, which can be pivoted 180°, helps reduce the amount of space required for storing the sweeper. This allows the appliance to be stored in the minimum amount of space when not in use.



**Brush height adjustment:** Thanks to the infinitely variable height adjustment, the brush pressure can be adapted to the respective soil texture. For very compact dirt, the height adjustment can be set to level 8. So the sweeper can lift the dirt with the brushes even better from the ground.



**Brush down holder and guiding roller\***  
This feature helps keep the bristles of the circular brooms on the ground during use. The guiding roller offers extra protection to the bristles and chassis when sweeping near edges.

\*depends on the device

## Features haaga 355:

Height-adjustable telescopic push handle with three different height adjustments for comfortable sweeping.



**Fine dirt brush**  
Machines sweep twice in one step. Even the most fine debris is collected.



**Form of the container**  
Slated container for an easy crossing of steps.



**Waste bin**  
Easy opening and closing of the waste bin due to a smart closure mechanism.







### THE ADVANTAGES OF HAAGA SWEEPERS AT A GLANCE:

- ✓ Sweep up coarse/fine dirt effortlessly
- ✓ Top quality "Made in Germany"
- ✓ Sweep wet and/or dry
- ✓ More sweeping capacity due to disc brushes projecting on both sides
- ✓ Pleasant smooth running and long shelf life due to beltless drive
- ✓ Easy sweeping along kerb stones and walls due to additional guide rollers
- ✓ Optimum cleaning capacity on different floors due to infinitely variable brush height adjustment
- ✓ Space-saving storage



# Decision support

Products	Application areas							Sweeping frequency							Features and technical data										
	Smaller areas up to approx. 500 m <sup>2</sup>	Middle areas up to approx. 1000 m <sup>2</sup>	Larger areas up to approx. 1500 m <sup>2</sup>	Large areas up to approx. 2000 m <sup>2</sup>	Very large areas up to approx. 2500 m <sup>2</sup>	Very large areas up to approx. 3000 m <sup>2</sup>	Very large areas up to approx. 3500 m <sup>2</sup>	Occasionally sweeping	Regular sweeping	Sweeping width / cm	4 years warranty on brush wear	iSweep	Fine dirt roller	Side roller	Integrated brush down holder	Special filter / intelligent air flow	Sealing lips	Ergonomic push handle	Height-adjustable push handle	Battery drive / Telescopic	Theoretic sweeping performance / m <sup>2</sup> /h	Running time in min.	Weight/kg	Container volume / l	
<b>Sweepers</b>																									
haaga 355	•							•		55	y	y	y	on one side	n	n	n	n	y	n	1,600	7.2	20		
haaga 375		•						•		75	n	n	y	n	n	n	n	n	n	2,900	11.1	50			
haaga 477 Profi		•	•						•	77	y	y	y	on one side	y	y	y	y	n	n	3,000	14.6	50		
haaga 497 Profi			•	•					•	97	y	y	y	on one side	y	y	y	y	n	n	3,600	15.7	50		
haaga 677 Profi 					•				•	77	y	y	y	on one side	y	y	y	y	n	90 min.	3,600	20.2	50		
haaga 697 Profi 						•			•	97	y	y	y	on one side	y	y	y	y	n	90 min.	4,100	21.1	50		
haaga 697 Profi plus 							•		•	97	y	y	y	on one side	y	y	y	y	n	120 min.	4,100	21.1	50		
haaga 137 accu 	•							•		37	n	n	y	n	n	n	n	n	y	45 min.	1,225	2,8	2		



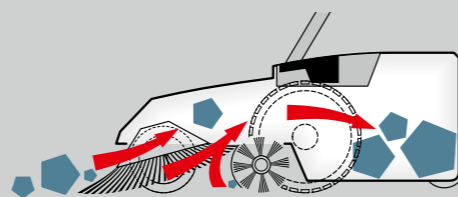
### The system of the rotating disc brushes

Detailed information to the turbo sweeping system and the intelligent air flow system you can find on our website.

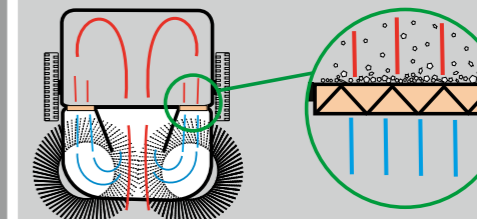
Four-year wear guarantee on the brushes\* guarantees full performance capability of the power sweeper over a long period.



Turbo sweeping system Counter-rotating disc brushes push the waste directly into the collecting container. With the additional fine-dirt sweeping roller the machines sweep twice in one step.



iSweep Form-fitting construction and self-lubricating material to increase reliability and durability of the driving clutch.



Low dust build-up due to intelligent air flow The 400/600 series are equipped with two special filters. The air containing dust is thus cleaned inside the machine and returned to the sweeping cycle.



Power sweepers

# Best sweeping capacity and easy, comfortable operation

The Haaga power sweepers offer the right appliance for every application. Smaller and larger areas in the home, garden, on car parks and at filling stations are cleaned as effortlessly as large areas in production halls or workshops.



**haaga 355**

For use at home, in the garden and in small industrial enterprises.

**haaga 375**

For occasionally use for medium-sized areas up to approx. 1,000 m<sup>2</sup>.

**haaga 477 Profi**

For commercial use for larger areas up to approx. 1,500 m<sup>2</sup>.

**haaga 497 Profi**

For commercial use for large areas up to approx. 2,000 m<sup>2</sup>.

**haaga 677 Profi**

For commercial use for large areas up to approx. 2,500 m<sup>2</sup>.  
Battery powered or manual.

**haaga 697 Profi**

For commercial use for very large areas up to approx. 3,000 m<sup>2</sup>.  
Battery powered or manual.

**haaga 697 Profi plus**

For commercial use for very large areas up to approx. 3,500 m<sup>2</sup>.  
Battery powered or manual.

Article no.	095097	095332	095325	095189	095363	095349	095370	
<b>Equipment</b>								
iSweep	yes	no	yes	yes	yes	yes	yes	
Turbo sweeping system	yes	yes	yes	yes	yes	yes	yes	
Disc brushes projecting on both sides	yes	yes	yes	yes	yes	yes	yes	
Lateral guidance	yes – on one side	no	yes – on one side	yes – on one side	yes – on one side	yes – on one side	yes – on one side	
Brush pressure pad	no	no	yes	yes	yes	yes	yes	
Brush height adjustment	yes	yes – infinitely variable	yes – infinitely variable	yes – infinitely variable	yes – infinitely variable	yes – infinitely variable	yes – infinitely variable	
Gearbox protected against dirt	no	no	yes	yes	yes	yes	yes	
Ergonomic push handle	no	no	yes	yes	yes	yes	yes	
Height-adjustable telescopic push handle	yes (90 – 95 – 100 cm)	no	no	no	no	no	no	
Flexible seals for low-dust sweeping	no	no	yes	yes	yes	yes	yes	
Fine dirt brush	yes	yes	yes	yes	yes	yes	yes	
Battery-powered	no	no	no	no	yes	yes	yes	
					Running time: approx. 90 min. Charging time: ca. 7 hours	Running time: ca. 90 min. Charging time: ca. 7 hours	Running time: ca. 120 min. Charging time: ca. 9 hours	
<b>Technical data</b>								
Operating principle	Turbo sweeping system	Turbo sweeping system	Turbo sweeping system	Turbo sweeping system	Turbo sweeping system	Turbo sweeping system	Turbo sweeping system	
Brush drive	manually	manually	manually	manually	manually	electrically or manually	electrically or manually	
Sweeping width* cm	55	75	77	97	77	97	97	
Container volume (max.) l	20	50	50	50	50	50	50	
Sweeping capacity m <sup>2</sup> /h	1,600	2,900	3,000	3,600	3,600	4,100	4,100	
Weight kg	7.2	11.1	14.6	15.7	20.2	21.1	21.1	
Application areas	Home and garden, narrow corridors	Filling stations, workshops, car parks, yards	Filling stations, workshops, car parks, yards, warehouses, production halls	Filling stations, workshops, car parks, yards, warehouses, production halls	Property management, cleaning companies, filling stations, workshops, car parks, yards, warehouses, production halls	Property management, cleaning companies, filling stations, workshops, car parks, yards, warehouses, production halls	Property management, cleaning companies, filling stations, workshops, car parks, yards, warehouses, production halls	

\*measured on the outer edge of the plate broom

Explanation of pictograms:





## Sweeper

## Quick sweeper for in between

You know how it is – fine particles of dirt collect everywhere in no time at all. In entrance halls and corridors, staircases and hotel lobbies but also at airports, railway stations, trade fairs or at the breakfast table at home. With the haaga 137 battery, they can be clean again in a jiffy – quickly, quietly and with no fuss.



## Sweeper

## Commercial battery-powered sweeper

For quiet and easy intermediate cleaning, both indoors and outdoors. The suspended sweeper roller is perfect for carpets or hard floors. No tracks left on sensitive floors thanks to its rubber wheels.



**haaga 137 accu**  
Cordless battery sweeper for quick and professional cleaning.

Fast, quiet and cordless – the best for intermediate cleaning!



## ★ Power technology for professionals



## Dirt drawer

The very roomy dirt drawer with a dirt volume of 2 litres ensures long periods of sweeping without the need to empty it in between.



## Lithium-ion battery

The haaga 137 comes with a powerful lithium-ion battery pack (10.8 V 2.0 Ah), enabling an operating time of approx. 45 minutes. The quick charging device (90 min. per battery) is included as standard.

Article no.	020297
<b>Equipment</b>	
iSweep	no
Turbo sweeping system	no
Disc brushes projecting on both sides	yes
Lateral guidance	no
Brush pressure pad	no
Brush height adjustment	no
Gearbox protected against dirt	no
Ergonomic push handle	no
Height-adjustable push handle	yes
flexible Dichtlippen für staubarmes Kehren	no
Fine dirt brush	yes
Battery drive	yes
Battery type	Lithium-ion battery pack
Running time	approx. 45 min. /30 min. (on hard floors/ carpets)
Charging time	approx. 90 min.
<b>Technical data</b>	
Operating principle	Turbo sweeping system
Brush drive	electrically
Sweeping width	cm 37
Container volumen (max.)	l 2
Sweeping performance	m <sup>2</sup> /h 1,225
Weight	kg 2.8
Application areas	For cleaning in between e.g. on fair booths, in bistros, lobbies, kitchens or cinemas.

- ★ Cleans right up into every corner: Includes 2 spare side brushes **EXTRA + FREE**

Rapid charger: charging time per battery pack approx. 90 minutes



- ★ Large foot pedal makes it easy to switch on and off without bending



- ★ Suitable for smooth surfaces and short pile carpets

- ★ Low noise level – also for cleaning during business hours

- ★ Ergonomic handle, telescopic handle for simple height adjustment & parking position for space-saving storage. Practical one-handed operation.



Cordless, compact & easy to manoeuvre  
Ideal for cleaning right into the smallest corner from time to time. With large dirt drawer, rubber wheels and two rotating side brushes



## Easy cleaning

Due to the haaga 137 battery's flat design and the flexible joint on the telescopic handle, you can also thoroughly clean hard-to-access areas, such as under cars or three-piece suites



## Side brushes

The rotating side brushes enable a perfect sweeping result, even in difficult areas such as corners and edges.



## Easy to assemble

Both the individual side brushes and the main sweeper roller can be exchanged without using a tool.





Accessories

# Recommendations for special cases



## ★ Antistatic equipment

Have you got a 'shock' when vacuuming? That's something many tradespeople know all too well. This is due to electrostatic charge in the suction hose. The solution: the starmix anti-static hose\*! To avoid harmless yet unpleasant electric shocks, some of our vacuum cleaners (iPulse Safe Plus vacuum cleaner) already come with an anti-static hose fitted as standard. For all other vacuum cleaners, we offer this hose as an option. Accessories page 85.

(\*suitable for all antistatically prepared starmix vacuum cleaner)

## ★ NANO Filter

Thanks to the specially coated surface, dust doesn't stick as much and the filters are also cleaned well, even in cases of hazardous problem dust (Minimum 99.9% dust retention capacity of the filter). There's nothing left to stand in the way of continuous, easy work. For use with ISP / ISC L and M vacuum cleaners or uClean and eSwift vacuum cleaners. See accessories page 79.



## ★ Intermateable hoses

When you are working, do you have to cover large distances between the vacuum cleaner and your work area? We have the solution: Connect two starmix five-metre suction hoses together and extend the area you can work in! For distances of more than ten metres, there may be a loss of suction power – depending on what material is being vacuumed. With liquids or fine, lightweight dust, this is negligible; however, with heavy materials it is considerable. See accessories from page 85.



## ★ Variable use through accessory change

An application-specific accessory set is contained in the scope of delivery of every starmix vacuum cleaner. To prepare the vacuum cleaner for another area of application, it only has to be equipped with another accessory set. The starmix accessory programme offers many possibilities for this. This way, an uClean power tool vacuum cleaner can be used to vacuum an office floor in no time at all. See accessories, page 75.



## ★ Nozzle set

art. no. 014142

### Equipment

- 1 × crevice nozzle (37 cm long) art. no. 417028
- 1 × fine suction brush, art. no. 418032
- 1 × suction brush, art. no. 418407
- 1 × upholstery nozzle, art. no. 418452
- 1 × adapter, 49 mm to 35 mm system art. no. 425641

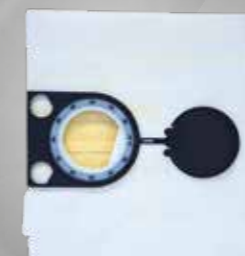


The right nozzle for every application – regardless of whether it is used in skilled trades or for special cleaning applications! The nozzle set comes in very handy when cleaning the nooks and crannies in a car, which are sometimes very hard to reach, such as the spaces between the seat and console as well as those under the seats.

## ★ Wet filter bag NFB

art. no. 420592

Perfectly for sucking mud – cleans the water from mud. Suitable for IS 50 I and GS 45 I and 55 I containers. See accessories, page 81.



## ★ FS 2078/3078

art. no. 012070

### Equipment

- incl. suction hose, ø 49 mm × 1.1 m with brush strips for GS 2078 and 3078

Width: 61.5 cm



Driving nozzle for GS 2078/3078. Can be mounted on the vacuum cleaner – height-adjustable, for sucking up (dry vacuuming) of larger areas.

## CONTENT

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85 Hose connecting sleeves / tool adapters, suction hoses

86 Accessories for cordless tools



Optional accessories bohrfixx

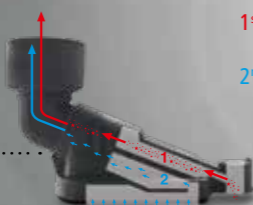
## The patented solution for vacuuming directly next to the drill hole.

This attachment for the vacuum pipe fits all regular household and industrial vacuum cleaners. It allows for completely safe, dust-free drilling in walls and ceilings without additional help from a second person.

**starmix**  
**bohrfixx**

Completely safe, dust-free work thanks to the patented 2 chamber system

1<sup>st</sup> chamber sucks up the drilling dust completely.  
 2<sup>nd</sup> chamber produces a vacuum which fixes the Bohrfixx to the ceiling or wall.



No dust residue on walls and wall coverings

**starmix**  
**bohrfixx**

Suitable for connector diameters from 32 to 37 mm\*

Flexible articulation piece  
 Provides the optimum pipe position and enables overhead work.

Robust steel drilling collar in steel  
 For all regular drills up to 14 mm diameter.

max.  
 Ø 14 mm

Video:



Simple and uncomplicated to use



Material: impact resistant ABS-plastic (polypropylen)  
 Weight: 133.5 g  
 Dimensions (W×H×T): 8.0×11.0×17.3 cm  
 Art. no.: 011370, language version D (DE/GB/FR/ES/NL)  
 Art. no.: 011462, language version O (GB/RU/PL/HR/CZ)

\*Suitable for almost all regular vacuum cleaners. Even domestic vacuum cleaners can be connected to it. Warning: exceptions are vacuum cleaners with a filter cleaning system based on an "air-backwash principle"!

Accessories

## Accessory sets for all applications

**EWS trade and industry accessories**

Art. no. 072401

**Equipment**

1 × suction hose\* with red air slide, ø 35 mm × 5 m, art. no. 447193  
 1 × tube handle, stainless steel with supplementary air slide, art. no. 421445  
 2 × suction tubes, stainless steel (each 50 cm), art. no. 424842  
 1 × crevice nozzle (22 cm long) art. no. 417011  
 1 × connection sleeve, stepped, art. no. 425719  
 1 × dust nozzle 37 with hard-floor insert art. no. 414706

**EW electric power tools (professional)**

art. no. 044705

**Equipment**

1 × suction hose with red air slide, ø 35 mm × 5 m, art. no. 447193  
 1 × connecting sleeve for electric power tools, stepped, art. no. 425719

**EW standard supplementary set**

art. no. 063201

**Equipment**

1 × tube handle, stainless steel with supplementary air slide, art. no. 421445  
 2 × suction tubes, stainless steel (each 50 cm) art. no. 424842  
 1 × crevice nozzle (22 cm long) art. no. 417011  
 1 × dust nozzle 37 with hard-floor insert art. no. 414706

**EW professional supplementary set**

art. no. 091709

**Equipment**

1 × tube handle, stainless steel with supplementary air slide, art. no. 421445  
 2 × suction tubes, stainless steel (each 50 cm) art. no. 424842  
 1 × crevice nozzle (22 cm long) art. no. 417011  
 1 × professional aluminium floor nozzle 45 with brush and rubber strip art. no. 416106

**EW construction supplementary set**

art. no. 015859

**Equipment**

1 × floor nozzle 30 art. no. 440941 (as specified by the trade association "construction". Dimensions of suction 28 × 70 mm)  
 2 × suction tubes, plastic (each 50 cm) art. no. 424859  
 1 × tube handle, plastic with supplementary air slide, art. no. 424804

**EHP electric power tools (professional)**

art. no. 016542

**Equipment**

1 × suction hose\*, ø 35 mm × 3.2 m art. no. 413228  
 1 × tube handle, plastic with supplementary air slide, art. no. 424804  
 2 × suction tubes, plastic (each 50 cm) art. no. 424859  
 1 × crevice nozzle (22 cm long) art. no. 417011  
 1 × rubber nozzle (23 cm long) art. no. 425696  
 1 × floor nozzle 30 (BG Bau) art. no. 440941

**EHB electric power tool (basic)**

art. no. 016603

**Equipment**

1 × suction hose\*, ø 35 mm × 3.2 m art. no. 413228  
 1 × tube handle, plastic with supplementary air slide, art. no. 424804  
 2 × suction tubes, plastic (each 50 cm) art. no. 424859  
 1 × crevice nozzle (22 cm long) art. no. 417011  
 1 × rubber nozzle (23 cm long) art. no. 425696  
 1 × water nozzle 26 art. no. 440934

**ST standard 49 mm (coarse dirt)**

art. no. 044309

**Equipment**

1 × suction hose\*, ø 49 mm × 1.75 m art. no. 414256  
 2 × suction tubes, plastic (each 50 cm) art. no. 425610  
 1 × coarse dirt crevice nozzle (16 cm long) art. no. 417639  
 1 × coarse dirt floor nozzle 36 (36 cm wide) art. no. 416731  
 1 × coarse dirt nozzle art. no. 417943



## Accessories

## Accessory sets for all applications

## PZ Professional accessories

art. no. 003108

**Equipment**

- 1 × suction hose, ø 35 mm × 3.2 m art. no. 413228
- 1 × tube handle, stainless steel with supplementary air slide, art. no. 421445
- 2 × suction tubes, stainless steel (each 50 cm) art. no. 424842
- 1 × crevice nozzle (37 cm long), art. no. 417028
- 1 × fine suction brush, art. no. 418032
- 1 × professional floor nozzle 45 with brush and rubber strips, art. no. 416519

## HMT household

art. no. 003009

**Equipment**

- 1 × suction hose, ø 35 mm × 3.2 m art. no. 413228
- 1 × tube handle, stainless steel with supplementary air slide, art. no. 421445
- 1 × suction tube, telescopic, stainless steel 57-95 cm; infinitely adjustable, art. no. 425573
- 1 × crevice nozzle (22 cm long) art. no. 417011
- 1 × upholstery nozzle (12 cm wide) incl. insert brush, art. no. 418452
- 1 × professional universal nozzle 29 (reversible), art. no. 414454
- 1 × water nozzle 26, art. no. 440934

## HK house / hobby

art. no. 044101

**Equipment**

- 1 × suction hose, ø 35 mm × 1.75 m art. no. 411507
- 1 × tube handle, plastic with supplementary air slide, art. no. 424804
- 2 × suction tubes, plastic (each 50 cm), art. no. 424859
- 1 × crevice nozzle (22 cm long), art. no. 417011
- 1 × upholstery nozzle (12 cm wide), art. no. 418452
- 1 × universal nozzle 25 (reversible) art. no. 414447
- 1 × water nozzle 26, art. no. 440934

ST standard 49 mm  
(coarse dirt)

art. no. 044309

**Equipment**

- 1 × suction hose, ø 49 mm × 1.75 m art. no. 414256
- 2 × suction tubes, plastic (each 50 cm) art. no. 425610
- 1 × coarse dirt crevice nozzle (16 cm long) art. no. 417639
- 1 × coarse dirt floor nozzle 36 (36 cm wide) art. no. 416731
- 1 × coarse dirt nozzle art. no. 417943

## MZ machines

art. no. 040103

**Equipment**

- 1 × suction hose\*, oil resistant ø 49 mm × 3.0 m art. no. 414201
- 1 × crevice nozzle, steel (25 cm long) art. no. 417035
- 1 × rubber nozzle oil-resistant (20 cm long) art. no. 425702
- 1 × adapter, 49 mm to 35 mm system art. no. 425641

FS driving nozzle  
for GS 2078/3078

art. no. 012070

**Equipment**

- incl. suction hose\*, ø 49 mm × 1.1 m with rubber and brush strip for all GS 2078 and 3078

Width: 61.5 cm

## Nozzle set 35/49







art. no. 014142

**Equipment**

- 1 × crevice nozzle (37 cm long) art. no. 417028
- 1 × fine suction brush, art. no. 418032
- 1 × suction brush, art. no. 418407
- 1 × upholstery nozzle, art. no. 418452
- 1 × adapter, 49 mm to 35 mm system art. no. 425641











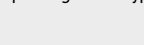
## Accessories

## Special accessories for iPulse

	Accessory system mm Ø	Length or width cm	Special features, material	Order no EAN 4011240 ...	
<b>Accessories for iPulse</b>					
<b>Push handle</b>					
	FB 35	–	–	Set push handle incl. pin plug, for all iPulse vacuum cleaners Powder-coated, avoids static electricity For comfortable driving of the vacuum cleaners For easy mounting to the container (plug in – ready)	445137
<b>Accessory storage</b>					
	Accessory storage	–	–	4 holders for wobble free fixation of the accessory, parking position for floor nozzles	445113
<b>Rail set</b>					
	Rail set (Smartfix)	–	–	Rail set, 2 pcs. (left and right) for mount on iPulse vacuum cleaner. Incl. 2 × velcro and Spax screws	445106
<b>starboxes</b>					
	starbox II FBV 25/35	–	–	Systainer size II L 296 × B 396 × H 165 mm, 2.035 kg filled with fleece filter bag FBV 25/35 (5-pack) box suitable for all ISP vacuum cleaner with smartfix	444451
	starbox II FBPE 25/35	–	–	Systainer size II L 296 × B 396 × H 165 mm, 2.015 kg filled with PE emptying bag FBPE 25-35 (5-pack = 1 set), box suitable for all ISP vacuum cleaner with smartfix	444475
	starbox II FKP 4300	–	–	Systainer size II L 296 × B 396 × H 165 mm, 2.656 kg filled with filter cassette FKP 4300 (2 pcs. = 1 set) box suitable for all ISP vacuum cleaner with smartfix	444468








## Accessories Consumables

	Accessory system mm Ø	Length or width cm	Special features, material	Order no. EAN 4011240 ...
<b>Filter bags</b>				
Filter bag for uClean/eSwift series (also suitable for HS/GS/AS units)				
	Fleece filter bag, double-layered – IFA (BIA) tested/dust class "M"			
	FBV 20 (5 pcs.) FBV 20 (10 pcs.)	–	–	for all 20 – 22 l plastic and steel containers large package – contains 10 pieces per box 3060 cm <sup>2</sup>
				434827 434971
Filter bag for iPulse and ISC series (also suitable for IS units)				
	Fleece filter bag, double-layered – IFA (BIA) tested/dust class "M"			
	FBV 25/35 (5 pcs.) FBV 25/35 (10 pcs.)	–	–	for all square 25 and 35 l plastic containers large package – contains 10 pieces per box 5160 cm <sup>2</sup>
				411231 434988
Filter bag for uClean/eSwift series (also suitable for HS/GS/AS units)				
	Fleece filter bag, double-layered – IFA (BIA) tested/dust class "M"			
	FBV rd 30 – 35 (5 pcs.) FBV rd 30 – 35 (10 pcs.)	–	–	for all <b>round</b> 30 - 35 l plastic, steel and stainless steel containers, large package – contains 10 pieces per box 6150 cm <sup>2</sup>
				442761 442778
Filter bag for ISC, uClean series (also suitable for IS/HS/GS units)				
	Fleece filter bag, double-layered – IFA (BIA) tested/dust class "M"			
	FBV 45 – 55 (5 pcs.) FBV 45 – 55 (10 pcs.)	–	–	for all 45 - 55 l plastic, steel and stainless containers large package – contains 10 pieces per box 8190 cm <sup>2</sup>
				435039 435176
Filter bag for TS 714 RTS HEPA				
	Fleece filter bag, triple-layered – IFA (BIA) tested/ dust class "M" – (10 pieces = 1 set)			
	FBV 11/14 HEPA (10 pcs.)	–	–	only for dry vacuum cleaner TS 714 RTS HEPA, TS 711 BASIC and TS 1214, 5-layered tearproven fleece filter material – HEPA filter quality H13 – ideal for people who are allergic to house dust – Dust retention capacity: 99.95 %
				444154
Filter bag for QUADRIX L 18V				
	Fleece filter bag – (5 pcs. = 1 set)			
	FBV 7,5 (5 Pack)	–	–	only for cordless vacuum cleaner QUADRIX L 18V Well suited for applications where small amounts of fine dust are produced
				448794
Filter bag for GS 2078 +3078				
	Paper filter bag, double-layered – IFA (BIA) tested/ dust class "M" – (5 pieces = 1 set)			
	FB 78 (5 pcs.)	–	–	for 78 l steel container <b>only for GS 2078 + 3078</b> 13000 cm <sup>2</sup>
				413044
PE emptying and disposal bags for iPulse and ISC series				
	Emptying and disposal bag (5 pieces = 1 set)			
	FBPE 50 (5 pcs.) for IS "M" and "H"	–	–	Polyethylen, for IS M and H with 50 l container
				421742
	FBPE 25/35 (5 pcs.) for ISP iPulse, IS/ISC "M" and "H"			
		–	–	Polyethylen, für ISC/ISP iPulse mit 25- und 35 l-Behälter, auch L-Sauger mit neuem Drehschieber (ab Produktionsjahr Okt. 2017)
				425764
	FBPE 35 (5 pcs.) for ISP iPulse "H asbestos"			
		–	–	Polyethylen, with "Asbestos" marking <b>!! Observe disposal regulations !!</b> for ISP iPulse with 35 l container
				425757
	FBVPE 25/35 (5 pcs.) for "iPulse" and "ISC", "M" and "H" vacuum cleaner			
		–	–	Safety filter bag, polyethylene with inlay fleece filter bag. <b>For all iPulse / ISC "M" and "H" vacuum cleaners with 25 and 35 liter container and new rotary slide, produced from october 2017!!</b> <b>!! Observe disposal regulations !!</b>
				445267

\*Depending on the type of dust safety vacuum cleaner must be used, see page 6/7.

\*\*Filter material: IFA (BIA)-proved for dust classification M.



	Accessory system mm Ø	Length or width cm	Special features, material	Order no. EAN 4011240 ...
<b>Main filter</b>				
Folded filter for ISP iPulse, ISC, IS series				
	Cellulose – Dust retention: 99.9 %			
	FK 4300	–	–	2 x cellulose folded filter cassettes with insertion rib filter material IFA (BIA) tested in accordance with dust class "M" – Filter surface area: 8600 cm <sup>2</sup> – Material: cellulose – Dust retention capacity: 99.9 % Folded filter cassette with glued in, optimised cellulose filter material and inserted rubber seal. For vacuuming household and industrial dust, sawdust, wood shavings, brick, drilling and milling dust and other similar substances. Depending on the type of dust Safety vacuum cleaner must be used, see page 6/7. (2 pcs. = 1 set, 2 x 4300 cm <sup>2</sup> filter surface)
				416038
	Polyester – class "M" – Dust retention: 99.9 %			
	FKP 4300	–	–	– 2 x cellulose folded filter cassettes with insertion rib filter material IFA (BIA) tested in accordance with dust class "M" – Filter surface area: 8600 cm <sup>2</sup> (2 x 4300 cm <sup>2</sup> ) – Material: polyester – Dust retention capacity: 99.9 % Folded filter cassette with glued in, optimised polyester filter material and inserted rubber seal. For vacuuming industrial dust, sawdust, brick, drilling and milling dust and other similar substances. Suitable for damp dust and liquids (fleece material). Depending on the type of dust Safety vacuum cleaner must be used, see page 6/7. Suitable for moist dusts and liquids (plastic fleece).
				416069
	Polyester – class "H"/"HEPA" – Dust retention: 99.995 %			
	FKP 4300 HEPA	–	–	– 2 x polyester folded filter cassettes with insertion rib FA (BIA) certified filter in accordance with dust class "H" (HEPA 14) – Filter surface area: 8600 cm <sup>2</sup> – Material: 1st layer: cellulose; 2nd layer: glass fibre fleece; 3rd layer: polyester – Dust retention capacity: 99.995 % As folded filter cassette FKP 4300, but with an additional filter layer for separating suspended materials which are not absorbed by the first layer. Due to the extremely high separation grade, this filter is classified in the H (HEPA) filter class.
				419190
	Polyester – NANO coated class "M" – Dust retention: 99.97 %			
	FKPN 3000 NANO	–	–	– 2 x nano-coated polyester folded filter cassettes with insertion rib filter material IFA (BIA) tested in accordance with dust class "M" – Filter surface area: 6000 cm <sup>2</sup> (2 x 3000 cm <sup>2</sup> ) – Material: nano-layered polyester – Dust retention capacity: 99.97 % As with folded filter cassette FKP 4300, but with additional nano-coating. <b>Especially suited to fine dusts containing fibre; e.g. when cutting and sanding Fermacell, drywall and MDF boards.*</b> + greater fold distance for better, easier filter cleaning + smooth filter material (nano coated surface) + therefore significantly higher flow volume for a longer time
				425740
Folded filter cassette for uClean, HS, GS, eSwift, AS series without vibrator (not suitable for GS 2078/3078)				
	Polyester – Dust retention: 99.9 %			
	FPP 3200	–	–	– 1 x polyester folded filter cartridge** – Filter surface: 3200 cm <sup>2</sup> – Material: polyester – Dust retention capacity: 99.9 % Folded filter cartridge for vacuuming household and industrial dust, sawdust, wood shavings, brick, drilling and milling dust and other similar substances*. Due to double filter surface FP 7200 is suitable for longer working cycles. <b>Only for GS 2078 and GS 3078 PZ!</b>
				413525

	Accessory system mm Ø	Length or Width cm	Special features, material	Order no. EAN 4011240 ...
<b>Folded filter cassette for uClean, HS, GS, eSwift, AS series without vibrator</b>				
Cellulose – Dust retention: 99.9 %				
	FP 3600 FP 7200	– –	– 1 x cellulose folded filter cassette ** – Filter surface area: 3600 cm <sup>2</sup> /7200 cm <sup>2</sup> – Material: cellulose – Dust retention capacity: 99.9 % Folded filter cassette for vacuuming household and industrial dust, sawdust, wood shavings, brick, wall, drilling and milling dust and other similar substances*. Due to the double filter surface, FP 7200 is suitable for longer work cycles. Not for GS 2078/3078 PZ.	411729 413471
Polyester – Dust retention: 99.9 %				
	FPP 3600	– –	– 1 x polyester folded filter cassette ** – Filter surface area: 3600 cm <sup>2</sup> – Material: polyester – Dust retention capacity: 99.9 % Folded filter cassette for vacuuming industrial dust, sawdust, brick, drilling and milling dust and other similar substances*. Suitable for damp dust and liquids (fleece material). Special polyester material with outstanding separation efficiency. Not for GS 2078/3078 PZ.	415109
Cellulose – Dust retention: 99.9 %				
	FPN 3600 NANO	– –	– 1 x nano-layered polyester folded filter cassette – Filter surface area: 3600 cm <sup>2</sup> – Material: cellulose with PET fibres – Dust retention capacity: 99.9 % Nano layered folded filter cassette for vacuuming industrial dust, sawdust, brick, drilling and milling dust and other similar substances*. With double dust intake as FPP 3600. Special NANO coated material. Not for GS 2078/3078 PZ.	400686
<b>Folded filter cassette for uClean, HS, GS, eSwift, AS series without vibrator</b>				
Polyester – Dust retention: 99.9 %				
	FPPR 3600 FPPR 7200	– –	– 1 x polyester folded filter cassette ** – Filter surface area: 3600 cm <sup>2</sup> /7200 cm <sup>2</sup> – Material: polyester – Dust retention capacity: 99.9 % Folded filter cassette for vacuuming industrial dust, sawdust, brick, drilling and milling dust and other similar substances*. Suitable for damp dust and liquids. Special polyester material with outstanding separation efficiency. Due to the double filter surface, FPPR 7200 is suitable for longer work cycles.	413464 413372
HEPA – Dust retention: 99,995 %				
	FPPR 7200 HEPA	– –	– 1 x HEPA folded filter cassette – IFA (BIA) certified filter for units of dust class "H" (HEPA 14) – Filter surface area: 7200 cm <sup>2</sup> – Material: 1st layer: cellulose; 2nd layer: glass fibre fleece; 3rd layer: polyester – Dust retention capacity: 99.995 % As folded filter cassette FPPR 7200, but with an additional filter layer for separating suspended materials which are not absorbed by the first layer.	414171
<b>Filter for QUADRIX L 18V</b>				
Folded filter				
	FF 3800	– –	Only for cordless vacuum cleaner QUADRIX L 18V (1 pcs./carton) – Material: cellulose – Dust class „L“	448800










	Accessory system mm Ø	Length or Width cm	Special features, material	Order no. EAN 4011240 ...
<b>Filter for dry vacuum cleaner</b>				
Filter basket				
	Fleece filter basket TS	– –	for dry vacuum cleaner TS 714 RTS HEPA und TS 1214 RTS	436135
<b>Additional filters for use as a pre-filter</b>				
Cotton wool filter bag				
	FST 3000 K FST 4000 K	– –	for all 20 l plastic containers for all 32/45 l containers (Material: cotton)	3000 cm <sup>2</sup> 411743 413280
Polyester filter bags				
	FSP 3100	– –	for GS 2078 + GS 3078 complete with filter ring and filter insert	3100 cm <sup>2</sup> 413501
	FSP 5000	– –	for all GS/HS 30-55 l containers (Material: polyester)	4000 cm <sup>2</sup> 443522
<b>Special filters</b>				
Filter for wet vacuuming				
	FSS 1200 Foam filter	– –	for all NSG, HS, GS, NTS units for wet vacuuming  (not suitable for GS 2078/3078)	1200 cm <sup>2</sup> 413297
	Wet filter bag NFB	– –	3 bags = 1 set For IS 50l and GS 45l and 55l containers	6500 cm <sup>2</sup> 420592
	FSN 80 Wet filter bag Mesh size 80µ	– –	Polyamide fabric suitable for water filters <b>included in the scope of delivery of pump vacuum cleaner</b> can be used several times, since it can be washed out	424071
	FSN 1000 Wet filter bag Mesh size 1000µ	– –	PET (polyethylene terephthalate) suitable for coarse water filters, e. g. for vacuuming ponds/algae, leaves, etc., can be used several times, since it can be washed out	424569
	WF 3200 Water filter	– –	Only for GS 2078/3078 can be used for wet vacuuming	432410
Filter for dry vacuuming				
	TS EPA E 12 Cassette filter	– –	for dry vacuum cleaner TS 714 RTS HEPA, also suitable for TS 1214	436449






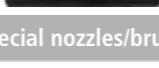






















## Special accessories



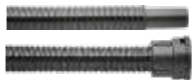

	Accessory system mm Ø	Length or Width cm	Special features, material	Order no. EAN 4011240 ...
<b>Pump vacuum cleaner</b>				
	GEKA-C-coupling		for fire service C-hose	424187
	Drain hose red 33-1000 rot	33	1000 for disposal of the dirty water vacuumed up	411316

## Optional accessories








	Accessory system mm Ø	Length or Width cm	Special features, material	Order no. EAN 4011240 ...
<b>Floor nozzles</b>				
	Universal nozzle 25 reversible	35	25 Plastic, can be switched to brush insert, floor side made of plastic	414447
	Floor nozzle 26	35	26 Plastic, floor nozzle complete with 3 inserts (hard-floor insert, water insert, carpet insert)	434773
	Hard-floor insert 26 Water insert 26	– –	26 26 plastic, with 2 brush strips plastic, with 1 x rubber and 1 x brush strip	414478 414485
	Dust nozzle 26	35	26 Plastic, floor nozzle with hard-floor insert (2 brush strips and rollers)	440927
	Hard-floor insert 26	–	26 plastic, with 2 brush strips	414478
	Water nozzle 26	35	26 Plastic, floor nozzle with water insert (1 x rubber and 1 x brush strip)	440934
	Water insert 26	–	26 plastic, with 1 x rubber and 1 x brush strip	414485
	Professional universal nozzle 27 TS reversible	32	27 Plastic, can be switched to brush insert. Usable with accessories for dry vacuum cleaner TS 714 and TS 1214 RTS only.	426402
	Universal nozzle 28 TS	32	28 for dry vacuum cleaner TS 711, suitable also for TS 714 and TS 1214	446202
	Professional universal nozzle 29 reversible	35	29 Plastic, can be switched to brush insert, with large roller Floor side made of metal	414454
	Floor nozzle 37	35	37 Plastic, floor nozzle complete with all 3 inserts (hard-floor insert with 2 brush strips and rollers, water insert with 2 rubber strips and rollers, carpet insert with plastic fluted profile)	402413
	Dust nozzle 37	35	37 Plastic, floor nozzle with hard-floor insert (2 brush strips and rollers)	414706
	Hard-floor insert 37		Plastic with 2 brush strips and rollers	414539

	Accessory system mm Ø	Length or Width cm	Special features, material	Order no. EAN 4011240 ...
	Water nozzle 37	35	37 Plastic, floor nozzle with water insert (2 rubber strips and rollers)	414713
	Water insert 37		Plastic, with 2 rubber strips and rollers	414546
	Aluminium professional floor nozzle 45	35	45 Aluminium, complete with 2 brush strips and 2 rubber strips, rollers	416106
	Brush strip set 45 Rubber strip set 45		front and back front and back	436548 436616
	Professional floor nozzle 45	35	45 Plastic/aluminium, complete with 2 brush strips and 2 rubber strips, rollers	416519
	Rubber strip set 45 Brush strip set 45		Rubber strip set Brush strip set	417646 417738
	Coarse dirt floor nozzle 36	49	36 Plastic, with 2 brush strips	416731
	Professional coarse dirt floor nozzle 45	49	45 Plastic/aluminium, complete with 2 brush strips and 2 rubber strips, rollers	416984
	Rubber strip set 45 Brush strip set 45		Rubber strip set Brush strip set	417646 417738
			<b>- Discontinued item -</b>	
	Floor nozzle 30	35	30 Plastic, <b>according to the regulations of BG Bau, Dimensions of suction intake: 28 x 70 mm</b>	440941
<b>Special nozzles/brushes</b>				
	Crevice nozzle 23 TS	32	23 for dry vacuum cleaner TS 714 RTS HEPA and TS 1214 RTS	436388
	Crevice nozzle 22	35	22 Plastic	417011
	Crevice nozzle 37	35	37 Plastic	417028
	Crevice nozzle 25	35	25 Steel	417035
	Crevice nozzle coarse dirt 16	49	16 Plastic	417639
	Coarse dirt nozzle	49	19 Plastic	417943
	Scratching nozzle, angled	35	48 Steel, for cleaning heating boilers	417950
	Scratching nozzle, straight	35	48 Steel, for cleaning heating boilers	418025
	Suction brush, round	35	– Plastic, round Ø 7.5 cm	418032
	Suction brush	35	23 Plastic	418407






		Accessory system mm Ø	Length or Width cm	Special features, material	Order no. EAN 4011240 ...
	Upholstery nozzle 10 TS	35	12	or dry vacuum cleaner TS 714, also suitable for TS 1214	436418
	Upholstery nozzle	35	12	Plastic, with thread lifter	418452
	Aluminium suction nozzle 12	35	12	Aluminium (incl. brush insert)	419763
	Radiator brush	–	–	Plastic Only to be used with crevice nozzles no. 417028	419794
<b>Tube handles</b>					
	Tube handle ES 35 with NL	35	33	Stainless steel, with supplementary air slide for hose with tapered connection	421445
	Tube handle 35 with NL	35	30	Plastic, with supplementary air slide for hose with tapered connection	424804
<b>Suction tubes</b>					
	Suction tube, aluminium 32-50 TS	32	50	or dry vacuum cleaner TS 714 und TS 1214	436425
	Suction tube ES 35 – 50	35	50	Stainless steel, with click-in lock, intermateable suitable for all vacuum cleaners, tubes and accessories with Ø 35 mm	424842
	Suction tube 35 – 50	35	50	Plastic, grooved	424859
	Telescopic tube	35	57/95	Stainless steel, infinitely extendable from 57 – 95 cm, with click-in lock	425573
	Suction tube 49-48 coarse dirt	49	48	Plastic, intermateable	425610
<b>Adapters</b>					
	Adapter 49/35	49/35	14.0	Plastic, from 49 to 35 mm connection system	425641
	Hose connector 49	49	8.5	Plastic, for connecting 2 x 49 mm suction hoses; only in conjunction with tube connection no. 583723	425658
	Y-double connection	35/49	16.0	Plastic, with bayonet connection for the connection of 2 starmix suction hoses, suitable for starmix accessories system Ø 35 mm and Ø 49 mm	425689

		Accessory system mm Ø	Length or Width cm	Special features, material	Order no. EAN 4011240 ...
<b>Hose connecting sleeves/tool adapters</b>					
	Rubber nozzle	35	23	Rubber, cone for connection with electric power tools, tapering from 28.0 - 38.0 mm outer ø	425696
	Rubber nozzle oil-resistant	35	20	Rubber, <b>oil-resistant</b> cone with connection with electric power tools, tapering from 28.0 - 38.0 mm outer ø	425702
	Connection sleeve stepped	35	11	Rubber, cone for connection with electric power tools, electrically conductive 1st step: 25.5 - 26.5 mm 2nd step: 30.5 - 32.5 mm 3rd step: 36.0 - 38.0 mm	425719
	Connection sleeve rotatable	35	11	Rubber, cone for connection with electric power tools, electrically conductive, also for oval tubes 36.5 - 37.0 mm outer ø	425726
	Connection sleeve 44	35	11	37.0 mm inner ø 44.0 mm outer ø Rubber, cone for connection with electric power tools, electrically conductive, also for oval tubes single-stage	508580
<b>Suction hoses</b>					
<b>Electrically conductive</b>					
	Suction hose AS 27 - 500	27	500	Pipe connection rotatable with connection sleeve (stepped) for connection to electric power tools, as no. 425719 bayonet connection rotatable can only be ordered together	417165
	Suction hose AS 35 - 320 (black) <b>- Discontinued item -</b>	35	320	Pipe connection, rotatable for stainless steel tube handle bayonet connection rigid, abrasion-proof	414164
	Suction hose AS 35 - 500 (black) with red air slide	35	500	Suction hose with pipe connection with red air slide to adjust suction performance	447162
<b>Normal type</b>					
	Schlauch 27 - 300 (f. Quadrix)	27	300	Suction hose Ø 27 mm 3m, black with rotatable connection sleeve (Outer Ø 35 mm / Inner Ø 25 mm), only for QUADRIX L 18V	
	Suction hose 27 - 500	27	500	Pipe connection rotatable with connection sleeve (rotatable) for connection to electric power tools, as no. 425719 bayonet connection rigid can only be ordered together	417158
	Suction hose 32-250 TS (incl. handle)	32	250	Suitable for dry vacuum cleaner TS 711 BASIC, TS 714 RTS HEPA and TS 1214 RTS	436326
	Suction hose 35 – 175 (black)	35	175	Both connections rigid – intermateable and extendable	411507
	Suction hose 35 - 320	35	320	Grey – both connections rotatable – can be pushed together and extended	413228
	Suction hose 35-500 with red air slide	35	500	Suction hose with pipe connection with red air slide to adjust suction performance	447193



	Accessory system mm Ø	Length or Width cm	Special features, material	Order no. EAN 4011240 ...	
	Suction hose 35 - 500 (signal red) with red air slide	35	500	Suction hose with pipe connection with red air slide to adjust suction performance	447179
	Bayonet connection 35 rotatable	35	-	Plastic, rotatable, break-proof, electrically conductive	426594
	Pipe connection 35 with red air slide, rotatable	35	-	Pipe connection EL with red air slide to adjust suction performance	447186
	Hose connector old 35 rotatable	35	-	Plastic, rotatable – usable for all 35 mm suction hoses, can be connected to older containers without bajonet system	421537
	Hose 49 – 175	49	175	Grey – both connections rigid	414256
	Hose 49 – 300	49	300	Grey – both connections rigid	414225
	Hose 49 – 500	49	500	Grey – both connections rigid	415758
	Hose 49 – 300 oil-resistant	49	300	Grey – both connections rigid, oil-resistant	414201
	Bayonet connection 49 rigid	49	-	Plastic, rigid	529752
	Pipe connection 49 rigid	49	-	Plastic, rigid can be connected to older tanks without bayonet connection	583723

## Accessories for cordless devices

	Accessory system mm Ø	Length or Width cm	Special features, material	Order no. EAN 4011240 ...	
<b>Battery packs</b>					
	Battery pack Li-Power 18V 5.2 Ah	-	-	Li-Power Battery pack 18V 5.2 Ah for QUADRIX L 18V, intelligent battery management for a long service life, no memory effect, compatible with CAS, fits cross-manufacturer on all cordless devices / devices with the CAS logo	448824
	Li-Ion removeable battery for haaga 137 accu	-	-	Lithium-Ion battery pack 10,8V 2.0 Ah for cordless sweeper haaga 137 accu, rechargeable, long lifetime, no memory effect	449104
<b>Battery charger</b>					
	Standard charger ASC 55	-	-	Standard charger ASC 55 is suitable for charging starmix and CAS Li-ion battery packs (Cordless Alliance System). According to the imprint 12 - 36 V, 1.3-8.0 Ah, 3-10 cells	448848
	Fast charger (without power adapter) for removable battery of haaga 137 accu	-	-	Fast charger for removable battery of haaga 137 accu. Charging time approx. 90 min.	449258
	Power adapter with EU plug for charger of haaga 137 accu	-	-	Power adapter with EU plug for charger of haaga 137 accu	449265

## Certification marks

Explanation of the certification marks	
	VDE mark (Verband der Elektrotechnik, Elektronik, Informationstechnik). The VDE indicates the safety of the product with regard to electrical, mechanical, thermal, toxic, radiological and other dangers.
	Certified safety. Equipment must satisfy the generally approved practices of engineering and conform to the Equipment Safety Act.
	The VDE test seal for electromagnetic compatibility.
	Insulated housing (Protection Class II). The unit does not require a protective earth.
	Intertek is a worldwide leading company when it comes to testing, inspecting and certifying electric and gas-powered products.
	Protection against the penetration of foreign bodies Ø > 12 mm. Protection against sprayed water from all directions.
	The certification is compulsory for a variety of products based on the safety test (IEC standards with Russian deviations).
	With the CE mark (Conformité Européenne) the manufacturer confirms the conformity of the product with the applicable EC directive and compliance with the stipulated "essential requirements.
	Sound measured in accordance with DIN EN 60704-1 and DIN EN 60704-2-1 (standardised survey method).

### Sales promotion

Further information on the sales promotion measures can be found in the separate "Sales promotion" leaflet. Please contact us under [export@starmix.de](mailto:export@starmix.de).

**PROMOTION**

### Note DSGVO:

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