Craft & Cleaning





Made in Germany. Made for

Professional vacuum cleaners from starmix will win you over with high performance, functionality and longevity. The basis for this is the consistent implementation of the "Made in Germany" quality philosophy. We develop and manufacture starmix vacuum cleaners at our "ELECTROSTAR GmbH" business headquarters in the Swabian Reichenbach. They are subjected to many of the toughest quality tests in accordance with international standards.

A STRONG TEAM

Thanks to an engaged workforce we have successfully mastered all development steps in our history.

The staff have a deep-seated connection to the company.

We are a strong team of competent, well-trained people who aim our various abilities towards one common goal: the satisfaction of our customers.

FUTURE-ORIENTATED INNOVATION

In more than 90 years of our company's history, we have proven our innovation, time and time again with smart inventions in the form of functional detail solutions, which make working with starmix vacuum cleaners so easy. In particular, you benefit as a user when working with large amounts of dust formation from our unique filter and filter cleaning technology, such as the pulse filter cleaning. A modular technology basis creates powerful solutions for various uses and vacuum cleaner types, which are all tailored to your application. With our modern innovation management, we are well prepared for the future.









05 CRAFT

- Dust-free workOptimal protection from specialists
- 08 Overview / decision support for craft
- **"iPulse" series**For the most difficult of fine, problematic dusts
- iPulse Standard
- iPulse M-/H-/H-asbestos safety vacuum cleaners
- 20 ISC "Compact" series

 Compact profile for hard dust usage
- 24 ISC Compact Standard
- 25 ISC Compact M safety vacuum cleaner
- "uClean" series for craft
 Your partner for small and mid-sized dust emission
- 30 ARDL units
- 32 ADL units
- "eSwift" series
 For quick usage on low dust emission

36 CLEANING

64 ACCESSORIES



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.

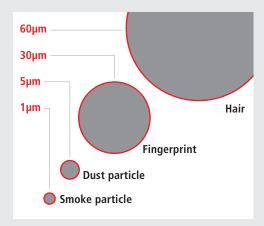


Do not forget: finer is more fearsome.

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.

> Further information at: http://www.bgbau.de/gisbau/fachthemen/staub



^{*} The complete text on handling healthendangering fine dusts can be found under:







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 > 1mg/m³. 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/m³ 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/m³, 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 H - 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.

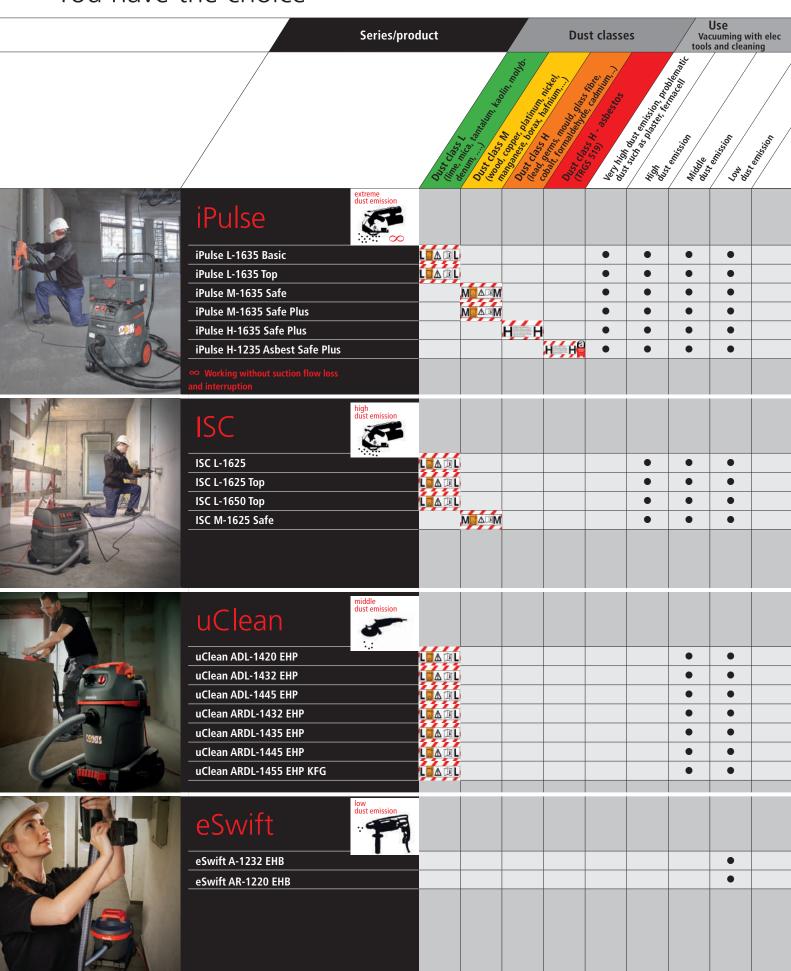


Dust class	AGW value*	Particle pene- tration grade (max.)	Disposal
LEADL	> 1 mg/m ³	< 1 % (filter material only)	_
Madaim	> 0.1 mg/m ³	< 0.1 % (complete system)	low dust
H . H	< 0.1 mg/m ³	< 0.005 % (complete system)	free of dust
H (H	< 0.1 mg/m ³	< 0.005 % (complete system)	free of dust
+ + 6144 6		D. G. 1	





You have the choice





tric powe	er								eatures									
		Puse file of the page	Puse file de la	Speed and a spin of the spin o	Hon Sollow	Antison, Constant Con	The sound of the s	Nomoun I leisone Aeste	Solver (in)	Kacum Consumption	Holyme of the of the	Mary Called Home C	Mejor Colmonia	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	suring, strains of the strains of th	Filler C.	in the state of th	CRAFT
	•			•	•	•	L	j	1600	280	75	35	15.6	11.0–12.0	69	8600	16	
	•			•	•	•	L	j	1600	280	75	35	16.8	13.0–14.0	69	8600	16	
	•			•	•	•	М	j	1600	280	75	35	15.6	13.0	69	8600	18	
	•			•	•	• •	М	j	1600	280	75	35	16.8	13.0	69	8600	18	
	•			•	•	• •	Н	j	1600	280	75	35	16.8	13.0	69	8600	18	
	•			•	•	• •	Н	j	1200	265	70	35	16.8	13.0	69	8600	19	
		•		•		•	M	j	1600	280	75	25	12.2	13.0	69	8600	24	
		•		•		•	М	j	1600	280	75	25	12.2	13.0–14.0	69	8600	24	
		•		•		•	M	j	1600	280	75	50	18.3	13.0–14.0	69	8600	24	
		•			•	•	М	j	1600	280	75	25	12.2	13.0	69	8600	25	
				•		•	M	j	1400	259	69	20	8.5	11.2–12.2		3600	32	
				•		•	M	:	1400	259 259	69	32 45	8.6	11.2–12.2	72 72	3600 3600	32 32	
		•		•	•	•	M M	j	1400	259	69 69	32	9.6	11.2–12.2	72	3600	30	
		•		•	•	•	M	j	1400	259	69	35	11.1	11.2–12.2	72	3600	31	
		•		•	•		M	j	1400	259	69	45	13.3	11.2–12.2	72	7200	31	
		•		•	•	•	M	j	1400	259	69	55	20.3	11.2–12.2	72	7200	31	
		_					141	J	1400	233	0,5	33	20.5	12.2	12	, 200	31	
							М	n	1200	210	70	32	7.5	8.2-9.2	72.5	3600	35	
			•				М	n	1200	210	70	20	7.7	8.2-9.2	72.5	3600	35	

"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" series

For the most fine, and problematic dust!

Warning, fine dust!
Take care of your health.
• page 6/7

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.

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



	starmix ISP ARDL 1635* (((iPulse)))	Dust debris up to Vol. flow I/min	500g 2100	1000g 2000	1500g	2000g 1800	2500g	3000g 1800	3500g 1900	4000g 1800	5000g 1700	6000g
■ 3500g Filter full!	Competitor 1 cleaner A*	Dust debris up to Vol. flow I/min	500g 2100	1000g 	1500g 2100	2000g 2100	2500g 2100	3000g T 1500	3500g	Air pr Temp Rel. h	TEST CONDITIONS: Air pressure: 995 mbar Temperature: 24° C Rel. humidity: 57 % rel. humidity Dust debris: Plaster dust from wet-room plaster- board coated Abrasive material: Fine MSf 636-1	95 mbar 24° C
✓ 2500g Filter full!	Competitor 2 cleaner B*	Dust debris up to Vol. flow I/min	500g 2200	1000g ▼ 2000	1500g	2000g 1600	2500g			from v board Abras		aster dust plaster-

Smartfix

for attaching all transport toolboxes of the "systai-ner" system. 2 rails expand the stohead 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 va cuums 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 rota**ry 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 volumetic 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



Main switch

On-demand, automatic pulse filter cleaning. No suction loss – always free filter:

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

Extremly 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.



this multifunctional elements.



Optionally installed and expanded on the appliance. With 4 mounts for accessories. Place to stow the nozzle when not in use and 2 additi-



Hose winding and

Secure storage of the hose by using the velcros.







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 elec-

tric charge.
(standard or optional)







"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.



Power cabel length

Maximum reach





iPulse L-1635 Basic

For the most difficult of fine and problematic dust.

iPulse L-1635 Top

8 (rubber, H05RR-F), red

13.0 - 14.0

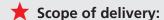
For the most difficult of fine and problematic dust. With push handle.

Article no.		018539	018621
Included in the scope of delivery		77.	
Accessory set		* EHP, art. no. 016542	* EWS, art. no. 072401
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.)
Equipment			
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
4-point mounting for toolboxes		no, multifunctional element	yes
Multi-function element		yes, 4×	no
Speed controller		yes, stepless	yes, stepless
Appliance socket		yes	yes
Filter control lamp		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 fill bags and PE emptying bags	ter	yes	yes
Fastening for intake manifold		yes	yes
Soft start/after-run		yes	yes
Water level detection		yes	yes
Antistatic equiped		yes	yes
Accessory holder		no, optional	yes
Technical data			
Nominal capacity (max.) Wa	tt	1600	1600
Volume flow (max.) measured at the motor head	/s	75	75
Volume flow (max.) measured at the end of the hose	/s	45	45
Vacuum (max.) measured at the motor head mba	ar	280	280
Vacuum (max.) measured at the end of the hose mba	ar	245	245
Container volume (max.) gros-dust-water	Ī	35/25/22 plastic	35/25/22 plastic
Sound pressure level dB()	۹)	69	69
Dimensions $L \times B \times H$ (*incl. FI	_	53 × 40 × 56 cm	53 × 40 × 92 cm
Weight k		15.6	16.8
	_		

8 (rubber, H05RR-F), red

11.0 - 12.0

m



Basic

- 1 velcro
- Accessories set EHP:*



Equipment

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

<u>Top</u>

- Smartfix
- 2 velcros
- Push handle
- Accessories set EWS:*



Equipment

- 1 × Suction hose AS, ø 35 mm × 5 m, art. no. 413235
- 1 × Tube handle, stainless steel, supplem. 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 × Connecting sleeve, stepped, art. no. 425719
- $1 \times \text{Dust nozzle } 37 \text{ with hard floor insert,}$ art. no. 414706



The boxes are available in different sizes. They are equiped with various accessories.

More information at starmix.de/en/accessories







Fleece filter bag FBV 25/35 5 pcs.







PE emptying bag FBPE 25/35 5 pcs.





----- OR -----

Filter cassettes FKP 4300 2 pcs.







EW Bau supplementary set

starbox V EW Bau supplementary set art. no. 444451

..... OR



EW Standard supplementary set

starbox II EW Standard supplementary set art. no. 444451



Smartfix rail set

Smartfix allows all 'Systainer' boxes to be securely attached to the vacuum cleaner. Threading lashing straps through the grip recesses allows various accessories to be stored in the storage space on the vacuum cleaner. In addition, Smartfix serves as a handle for carrying the appliance and for fastening the hose. The hose can be securely fastened to the rail for transportation with the help of hook-and-loop straps. Models in the iPulse 'Basic' range can be upgraded (see Smartfix rail set).

★ OPTIONAL ACCESSORIES:





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

Accessory holder art. no. 445113



Push handle FB 35 art. no. 445137



Nano filter

art. no. 445106 (see page 70)



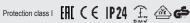
The smooth, nano-coated surface and the larger distance between folds enable a higher volume flow over a longer period of time and in turn better filter cleaning.

Especially suited to fine dusts containing fibre.











"iPulse" series

Safety vacuum cleaners M, H and H-asbestos

The specialists for the toughest use with hazardous dusts.



iPulse M-1635 Safe

Dust retention capacity at least 99.99% according to dust class "M"



iPulse M-1635 Safe Plus

Dust retention capacity at least 99,99 % according to dust class "M"



iPulse H-1635 Safe Plus

Dust retention capacity at least 99,995 % according to dust class "H"



3 units special PE emptying bag

after-sales art. no. 425764 (5 pcs.)

*EWA, individual parts only

018638

3 units special PE emptying bag after-sales art. no. 425764 (5 pcs.)

018614

3 units special PE emptying bag after-sales art. no. 425764 (5 pcs.)

	ш		

Speed controller

Soft start / after-run

Sound pressure level

Power cabel length

Maximum reach

Dimensions

Weight

Accessory set Filter bag

Main filter FKP 4300 (Polyester) Dust retention capacity: 99.9 % art. no. 416069 Impulse filter cleaning yes - iPulse

1600

75

45

280

245

35/25/22

 $53 \times 40 \times 56$ cm

8 (rubber, H07RN-F), red

plastic

69

13.0

dB(A)

kg

 $L \times B \times H$ (*incl. FB)

4-point mounting for toolboxes yes, 4× Multi-function element

Appliance socket yes Filter control lamp Push handle Carring handle with cable hook/

hose fixing - plug fixation Pre-selection switch volume flow/hose ø Electric volume flow monitoring with optical + acoustic warning function Rotary vane for flexible use of fleece filter bags and PE emptying bags Fastening for intake manifold

Water level detection Antistatic equiped Accessory holder Nominal capacity (max.) Watt Volume flow (max.) measured at the motor head l/s Volume flow (max.) measured at the end of the hose Vacuum (max.) measured at the motor head Vacuum (max.) measured at the end of the hose Container volume (max.) gros-dust-water

no, multifunctional element yes, 2-stufig no, optional FB 35, art. no. 445137 yes/yes (1 velcro)

ves yes ves yes yes yes yes no, optional

yes yes yes yes yes yes ves 75 45 280 245 35/25/22 plastic 69 $53 \times 40 \times 92^*$ cm 13.0

FKP 4300 (Polyester) Dust retention capacity: 99.9 % art. no. 416069 yes - iPulse yes yes, 2-level yes yes yes/yes (2 pcs. velcro)

ves 1600

45 8 (rubber, H07RN-F), red

*EWA, individual parts only

FKP 4300 HEPA (Polyester) Dust retention capacity: 99.995 %

art. no. 419190 yes – iPulse yes yes, 2-level

yes yes yes/yes (2 pcs. velcro)

yes yes yes

ves 1600 75

yes

yes

280 245 35/25/22 plastic 69 $53 \times 40 \times 92^*$ cm

13.0

8 (rubber, H07RN-F), red

BEWARE OF FINE DUST • MANN AND HALL VACS +++ BEWARE OF FINE DUST • MANN AND HALL VACS +++ BEWAR

Warning, fine dust! Take care of your health. **6** page 6/7



iPulse H-1235 Asbest Safe Plus

Dust retention capacity 99,995 % according to dust class "H asbestos"

018645**



*EWA, individual parts only

3 unit special PE emptying bag(asbestos) after-sales art. no. 425757 (5 pcs.)

FKP 4300 HEPA (Polyester) Dust retention capacity: 99.995 % art. no. 419190

yes - iPulse

yes

yes, 2-level

yes

yes

yes/yes (2 pcs. velcro)

ves

yes

yes

yes

yes

yes yes

ves

1200

70

40

265

230

35/25/22

plastic 69

 $53 \times 40 \times 92$ * cm

16.8

8 (rubber, H07RN-F), red

13.0



Scope of delivery:

Safe Plus

- Smartfix
- 2 velcros
- Push handle
- Accessory set EWA:* (individual parts only)



Equipment

- 1 × Suction hose AS, ø 35 mm × 5 m, art. no. 426563
- 1 × Connection sleeve, stepped, art. no. 425719

Safe

- 1 velcro
- Accessory set EW:*



Equipment

- 1 × Suction hose, ø 35 mm × 5 m, art. no. 413235
- 1 × Connection sleeve, stepped, art. no. 425719



Advantages antistatic suction hose:



- ★ Permanently electrostatically conductive no static charge (see iPulse Safe Plus vacuum cleaners)
- ★ Non-marking no stripes on the floor on objects
- ★ Very flexible and resistant to abrasion
- ★ Patented construction and manufacturing processes
- ★ 360° rotatable connection sleeve for tube and bayonet no twisting

Other accessories from page 68













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



ISC "COMPACT" SERIES Starmix

ISC "Compact" series

Compact profile for hard dust usage

Warning, fine dust!
Take care of your health.
• page 6/7

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.





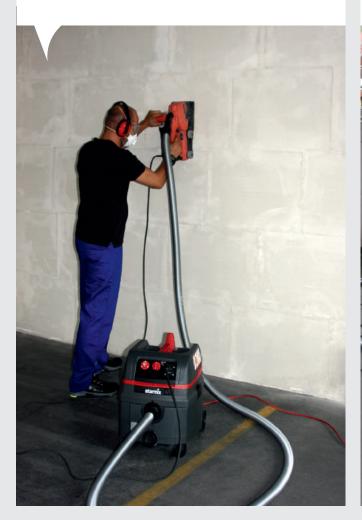
Your colleagues are delighted:

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 garanteed at all times — abolutely awesome! The ISC is a powerful and simultanously compact vacuum cleaner. It's just the right devise 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
- 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.

High-performance

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



Container that has been proven effective at

Light but extremely stabile double-walled construction for easy emptying of dust, dirt and liquids. With a new container closure for a









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

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,







The powerful compact version for application with dust in the class "L"

ISC L-1625 Top

With accessories for cleaning work

ISC L-1650 Top

The large version with 50l container and push handle

	application with dust in the class E		and push namate	
Article no.	018744 LEALL	018577 LDA IIL	018584 LAAIL	
Included in the scope of delivery				
Accessory set	*EW, art. no. 044705	*EWS, art. no. 072401	*EWS, art. no. 072401	
Filter bag	1 unit FBV 25-35 art. no. 411231 (5 pcs.)	1 unit FBV 25-35 art. no. 411231 (5 pcs.)	1 unit FBV 45-55 art. no. 435039 (5 pcs.)	
Equipment				
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 lamp	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	
Technical data				
Nominal capacity (max.) Wa	tt 1600	1600	1600	
Volume flow (max.) measured at the motor head	75	75	75	
Volume flow (max.) measured at the end of the hose	5 45	45	45	
Vaccuum (max.) measured at the motor head mba	r 280	280	280	
Vaccuum (max.) measured at the end of the hose mba	r 245	245	245	
Container volume (max.) gross-dust-water	l 25/20/15 plastic	25/20/15 plastic	50/45/40 plastic	
Sound pressure level dB(A) 69	69	69	
Dimensions L × B × H	43 × 39 × 49 cm	45 × 39 × 49 cm	59,5 × 46,5 × 96 cm	
Weight kg	12.2	12.2	18.3	
Power cable length m	8 (rubber, H05RR-F), red	8 (rubber, H05RR-F), red	8 (rubber, H05RR-F), red	
Maximum reach m	13.0	13.0 – 14.0	13.0 – 14.0	

ISC "Compact" series

Special vacuum cleaner class M

The specialist for dangerous fine dusts and organic dusts.

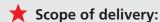


Warning, fine dust! Take care of your health. • page 6/7

ISC M-1625 Safe

Dust retention capacity at least 99.99% according to dust class "M"

Article no. Included in the scope of de	elivery	018591 MMAIM
Accessory set	anver y	*EW, art. no. 044705
Filter bag		3 units special PE emptying bag after-sales art. no. 425764 (5 pcs.)
Equipment		
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 lamp		yes
Carrying handle with cable hoo hose fixing - plug fixation	ok/	yes/yes, 1 velcro
Pre-selection switch volume flo hose ø	ow/	yes
Signal tone if volume flow is to low	00	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
Technical data		
Nominal capacity (max.)	Watt	1600
Volume flow (max.) measured at the motor head	l/s	75
Volume flow (max.) measured at the end of the ho	se l/s	45
Vaccuum (max.) measured at the motor head	mbar	280
Vaccuum (max.) measured at the end of the ho	se mbar	245
Container volume (max.) gross-dust-water	I	25/20/15 plastic
Sound pressure level	dB(A)	69
Dimensions	$L \times B \times H$	45 × 39 × 49 cm
Weight	kg	12.2
Power cable length	m	8 (rubber, H07RN-F), red
Maximum reach	m	13.0



Accessory set EWS* / EW* (see page 67)





Optional accessories:

Nano filter (see page 70)



Other accessories from page 69

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.











"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" 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.

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.





Technology for professionals



Up to 20% more performance: powerful high speed motor

Single-stage guick-running motor with high-speed turbine. Optimal efficiency with significantly higher flow volume and suction than comparable motors with similar wattage. And significantly lighter and more compact too. With proven starmix bypass cooling for wet- and dry vacuuming. The working life of the carbon brushes is over 800 hours!



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

Modern, appealing container design with optimum gross/net ratio. The new guick-running motor requires little space - meaning that the filter can be placed closer to the container head. This results in a larger container volume. The impact-resistant, robust construction is tuned to the field of application. 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. Just insert a starmix suction hose (only intermateable hoses) into the bayonet coupling, lock it and go.



"SmartStop"

With the new locking brake, the NSG can be brought quickly and stably to its parked position - without hands, only using your feet. An underside guard pro tects from damage while moving and facilitates over coming obstacles. Furthermore, the foot-brake can also be used as an ergonomically-formed carry handle for the simple and clean emptying of the container.



Filter cleaning and applicance socket

Automatic pulse filter cleaning and appliance socket to connect the electric power tool. For optimum results thanks to clean filter. Time saving through ease of use.

with accessory Simply clever: all of the standard accessories



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







Rocker foot-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.



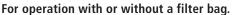
Changing the cable

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.







Scope of delivery:

EHP accessory set* (see page 67)





Optional accessories:

Antistatic suction hose (see page 76)





- ★ 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

uClean ARDL-1432 EHP

with automatic filter cleaning for normal dust development, 32l container

Article no.		016344 LAALL		
Scope of delivery		77/		
Accessory set		*EHP art. no. 016542		
Replacement filter		1 × FSS 1200 (foam material)		
Filter bag		1 × FBV rd 30-35 after-sales art. no. 442761 (5 pcs.)		
Equipment				
Main filter		FPPR 3600 (polyester) Dust retention capacity: 99.9 % art. no. 413464		
Pulse filter cleaning		yes, during work breaks		
Appliance socket		yes		
Speed controller		stepless		
Filter control light		yes		
Hose winding and connector fixture		yes		
Park position		yes		
Tilting running gear		no		
Gentle start/after-running		yes/yes		
Water level detection		yes		
Antistatically prepared		yes		
Rubber wheels and castors		no		
SmartStop		yes		
Accessory compartment		yes		
Blowing function		yes		
Push handle		no		
Technical data				
Power consumption (max.)	Watt	1400		
Volume flow (max.)	l/s	69		
Vacuum (max.)	mbar	259		
Container volume (max.) gross - dust - water	I	32/28/21 plastic		
Sound pressure level	db(A)	72		
Dimensions	LxWxH	43 × 39 × 64 cm		
Weight	kg	9.6		
Power cable length	m	8 (PVC), red		
Reach	m	11.2 – 12.2		



Warning, fine dust! Take care of your health. • page 6/7







uClean ARDL-1435 EHP

with automatic filter cleaning for normal dust development, 35l stainless-steel container

uClean ARDL-1445 EHP

with automatic filter cleaning for normal dust development, 45l container

uClean ARDL-1455 EHP KFG

with tilting running gear and large volume 55l stainless-steel container

Article no.

017372







Scope of delivery					
Accessory set		*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.)	
Equipment					
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 compartment		yes	yes	yes	
Blowing function		yes	yes	yes	
Push handle		no	yes	yes	
Technical data					
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	I	35/30/23 stainless steel	45/40/33 plastic	55/50/43 stainless steel	
Sound pressure level	db(A)	72	72	72	
Dimensions	LxWxH	46 × 44 × 70 cm	47 × 48 × 79 cm	$58 \times 50,5 \times 97,5 \text{ cm}$	
Weight	kg	11.1	13.3	20.3	
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	

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 6/7



NSG uClean ADL-1420 EHP

without filter cleaning for low/normal dust development, 20l container



NSG uClean ADL-1432 EHP

without filter cleaning for low/ normal dust development, 32l container



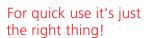
Article no. 016306 016313 016337

Article no.		010300	010313	010337	
Scope of delivery					
Accessory set		*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 20 after-sales art. no. 434827 (5 pcs.)	1 × FBV rd 30-35 art. no. 442761 (5 pcs.)	1 × FBV 45-55 art. no. 435039 (5 pcs.)	
Equipment					
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 compartment		yes	yes	yes	
Blowing function		yes	yes	yes	
Push handle		no	no	yes	
Technical data					
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	I	20/16/10 plastic	32/28/21 plastic	45/40/33 plastic	
Sound pressure level	db(A)	72	72	72	
Dimensions	LxWxH	43 × 39 × 55 cm	43 × 39 × 64 cm	47 × 48 × 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" 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. Useorientated accessories and sophisticated detail solutions make the new starmix all-purpose vacuum cleaner a helpful allrounder - 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. The upper surface of the container offers lots of room for storing tools and auxiliary devices.



More safety

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



Filter cleaning and appliance socket

Socket for connection of power tools. Manual filter cleaning for optimum results thanks to clean filter.

compartment with 6 holding positions

accessory compartment for storing all accessories during



Very stable and

provides perfect stability. The built-in ramp eases movement over obstacles.





"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

Article no.		016511	016528
Scope of delivery			
Accessory set		*EHB power tool (basic) art. no. 016603	*EHB power tool(basic) art. no. 016603
Replacement filter		no	no
Filter bag		1 × FBV 20 after-sales art. no. 434827 (5 pcs.)	1 × FBV rd 30-35 after-sales art. no. 442761 (5 pcs.)
Equipment			
Main filter		FPPR 3600 (polyester) Dust retention capacity: 99.9 % art. no. 413464	FP 3600 (cellulose) Dust retention capacity: 99.8 % art. no. 411729
Impulse filter cleaning		yes	no
Appliance socket		yes	yes
Speed controller		no	no
Carry handle with cable and p connector fixture	oipe coiling -	yes	yes
Gentle start/after-running		yes/yes	yes/yes
Water level detection		yes	yes
Antistatically prepared		no	no
Push handle		no	no
Pipe clip		no	no
Accessory compartment		yes	yes
Technical data			
Power consumption (max.)	Watt	1200	1200
Volume flow (max.)	l/s	70	70
Vacuum (max.)	mbar	210	210
Container volume (max.) gross - dust - water	1	20/15/8 plastic	32/27/20 plastic
Sound pressure level	db(A)	72.5	72.5
Dimensions	LxWxH	39.5 × 39 × 47.3 cm	39,5 × 39 × 56,3 cm
Weight	kg	7.7	7.5
Power cable length	m	5 (PVC), red	5 (PVC), red
Reach	m	8.2 – 9.2	8.2 – 9.2



X Scope of delivery:

EHB accessory set power tools (basic)* (see page 67)









CONTENT

05 CRAFT

36 CLEANING

- 38 Overview/decision support for cleaning
- "uClean" series for cleaning
 The vacuum cleaner for a wide range of wet-dry cleaning
- **48 GS series**The wet-dry vacuum cleaner for large areas.
- **Special vacuum cleaners**The vacuum cleaners for special applications.
- **"eSwift" series**The compact cleaner for universal wet-dry cleaning.
- The dry vacuum cleaner for hotels and commerce.
- Power sweepersPatented, efficient disc brush technology.

64 ACCESSORIES

Decision support

	<u> </u>									
		Series/prod	ucts				A	oplicatio	on areas	;
			HOP.	Pourse Coming	out the state of t	Addy de Marino	The star of the st	1040 A Sept of 104 A Sept of 1	Met.g. Dad nothing	y desing desing
	uClean							,		
	uClean 1420 HK			•	•				•	
	uClean 1432 HK			•	•				•	
	uClean 1432 ST				•	•		•	•	
	uClean 1445 ST				•	•		•	•	
	uClean LD-1420 HMT		•	•			•		•	
	uClean LD-1432 HMT		•	•			•		•	
	uClean LD-1435 PZ						•	•	•	
	uClean LD-1445 PZ						•	•	•	
	uClean LD-1422 HZ plus			•					•	
O Die	GS									
THE STREET	GS 2078 PZ						•	•	•	
	GS 3078 PZ						•	•	•	
	eSwift 1220 HK eSwift 1232 HK			•	•				•	
	Special vacuul cleaners	m 🌺								
	uClean PA-1455 KFG FW								•	
	uClean PA-1455 KFG								•	
	* for large volumes of liquid -									
	TS									
	TS 714 RTS HEPA		•	•						



Peatures and technical data Peatures P																	
No.								Featu									
No.	Jan	noise of action of the state of	Motion S	Torey therein	Spingle Spingle	Ares.	Thompson April 1996	(M) sep	Pacum Marianiani	Show of the sound of the state	Max. Carlon House	Meigh. Polimerities	So the South	Sound Sound	Filler.	i Wu copy of the c	
No.																	
No	n	n	j	n	n	j	n	1400	259	69	20	7.8	9.75–10.75	72.5	3600	44	
	n	n	j	n	n		n										
j j j 2-level n j j 1400 259 69 20 8.0 15.2-16.2 68.5 3600 46 j j j j 2-level n j j 1400 259 69 32 8.3 15.2-16.2 68.5 3600 46 j j j j j 1400 259 69 35 9.9 15.2-16.2 68.5 3600 47 j j j 2-level n j j 1400 259 69 45 12.6 15.2-16.2 68.5 3600 47 j j j 2-level n j j 1400 259 69 45 12.6 15.2-16.2 68.5 3600 47 n n j j 1400 259 69 45 15.2-16.2 68.5 3600 47 n n j n n n n 200 25 108 78	n	n	j	n	n												
	j	n	j	1		1											
j j j 2-level n j j 1400 259 69 35 9.9 15.2-16.2 68.5 3600 47 j j j 2-level n j j 1400 259 69 45 12.6 15.2-16.2 68.5 7200 47 j j j 2-level n j j 1400 259 69 22 9.6 15.2-16.2 69.5 3600 47 n n n n j n n 2400 205 108 78 23.5 11.7-12.7 77 48 n n n j n n 3600 205 162 78 26.0 11.7-12.7 77 48 n n n j n 1200 210 70 20 7.3 6.75-7.75 72.5 3600 53 n n <td>j</td> <td>j</td> <td>j</td> <td></td>	j	j	j														
j j j 2-level n j j 1400 259 69 45 12.6 15.2-16.2 68.5 7200 47 j j j 2-level n j j 1400 259 69 22 9.6 15.2-16.2 69.5 3600 47 n n n j n n 2400 205 108 78 23.5 11.7-12.7 77 48 n n n j n n 3600 205 162 78 26.0 11.7-12.7 79 48 n n j n n 1200 210 70 20 7.3 6.75-7.75 72.5 3600 53 n n j n 1200 210 70 20 7.3 6.75-7.75 72.5 3600 53 n n j n j n	J	<u>J</u>	J :				J :										
j j j j 2-level n j j j 1400 259 69 22 9.6 15.2-16.2 69.5 3600 47 15	J :	J :	J ;				J :										
No.	j i	j i	j i														
n n j n j n n 2400 205 108 78 23.5 11.7-12.7 77 48 n n j n j n n 3600 205 162 78 26.0 11.7-12.7 79 48 n n i <	J	J	J	Z-level	11	J	J	1400	239	09	22	9.0	13.2-10.2	09.3	3000	47	ניי
n n j n j n n 3600 205 162 78 26.0 11.7-12.7 79 48 n	n	n	i	n	i	n	n	2400	205	108	78	23.5	11 7–12 7	77		48	CLEANING
No.			i	+													
n n j n j n n j 2-level j n j 2200 248 61 55 20.3 18.0-50.0 73 3600 51																	
No.			j			1											
n n j 2-level j n j 2200 248 61 55 20.3 18.0-50.0 73 3600 51	n	n	J	n	n	J	n	1200	210	/0	32	7.4	6./5-/./5	/2.5	3600	53	
n n j 2-level j n j 2200 248 61 55 20.3 18.0-50.0 73 3600 51																	
			j	1	-												
j j n Eco mode n j n 700 210 42 14 4,9 13,0 73 55	n	n	j	2-level	j	n	j	2200	248	61	55	20.3	18.0-50.0	73	3600	51	
j j n Eco mode n j n 700 210 42 14 4,9 13,0 73 55																	
	j	j	n	Eco mode	n	j	n	700	210	42	14	4,9	13,0	73		55	



"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.

The powerful partner for all requirements:

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 highspeed turbine. Optimal efficiency with significantly higher flow volume and suction than comparable motors with similar wattage. And significantly lighter and more compact too. With proven starmix bypass cooling for wet and dry vacuuming. The working life of the carbon brushes is over 800 hours!



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

Modern, appealing container design with optimum gross/net ratio. The new quick-running motor requires little space - meaning that the filter can be placed closer to the container head. This results in a larger container volume. The impact-resistant, robust construction is tuned to the field of application. 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 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.



"SmartStop" *

With the new locking brake, the uClean can be brought quickly and stably to its parked position without hands, only using your feet. An underside quard protects from damage while moving and makes it easier to overcome obstacles. Furthermore, the footbrake can be used as an ergonomically formed carry handle for the simple and clean emptying of the container.

* only on marked appliances

Stable all round

- (130 mm) for perfect easy rolling. Rubberised wheels for quiet and scratch-free work
- wheeled crossbeam.



ECO switch / rocker foot switch ON / OFF

The I/O switch is easily ac the container. The LD appliances also feature a power-saving function







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



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

"uClean" series

Vacuum cleaner (wet/dry)

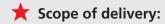
The universal cleaners with basic equipment for wet and dry cleaning of buildings (garage, commerce, household)

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



Accessory set HK house/hobby* (see Page 67)



Accessory set ST Standard 49 mm (coarse dirt)* (see Page 67)



Other accessories from page 69

Article no.		016221	016238
Scope of delivery			
Accessory set		*HK art. no. 044101	*HK art. no. 044101
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 art. no. 442761 (5 pcs.)
Equipment			
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 handl		no	no
Rubber wheels and castors		no	no
SmartStop		no	no
Accessory compartment		yes	yes
Blowing function		yes	yes
Technical data			
Power consumption (max.)	Watts	1400	1400
Volume flow (max.)	l/s	69	69
Vacuum (max.)	mbar	259	259
Container volume (max.) gross - dust - water	1	20/16/10 plastic	32/28/21 plastic
Sound pressure level	dB(A)	72.5	72,5
Dimensions	LxWxH	39.5 × 39 × 55 cm	$39.5 \times 39 \times 64$ cm
Weight	kg	7.8	8.1
Power cable length	m	8 (PVC), red	8 (PVC), red
Reach	m	9.75 – 10.75	9.75 – 10.75
Application areas		House and homeGarage/Workshop/Hobby	House and homeGarage/Workshop/Hobby





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



uClean 1445 ST The coarse dirt vacuum cleaner (wet-dry) with 45l container

Article no.		016245	016252
Scope of delivery			
Accessory set		*ST art. no. 044309	*ST art. no. 044309
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.)
Equipment			
Main filter		FP 3600 (cellulose) Dust retention capacity: 99.8 % art. no. 411729	FP 7200 (cellulose) Dust retention capacity: 99.8 % art. no. 413471
Pulse filter cleaning		no	no
Appliance socket		no	no
Speed controller		no	no
Hose winding and connector	fixture	yes	yes
Park position		yes	no
Gentle start/after-running		no	no
Water level detection		yes	yes
Antistatically prepared		no	no
Noise reduction		no	no
Push handl		no	yes
Rubber wheels and castors		no	yes
SmartStop		no	no
Accessory compartment		yes	yes
Blowing function		yes	yes
Technical data			
Power consumption (max.)	Watts	1400	1400
Volume flow (max.)	l/s	69	69
Vacuum (max.)	mbar	259	259
Container volume (max.) gross - dust - water	1	32/28/21 plastic	45/40/33 plastic
Sound pressure level	dB(A)	72.5	72.5
Dimensions	LxWxH	39.5 × 39 × 64 cm	47 × 48 × 79 cm
Weight	kg	8.1	12.4
Power cable length	m	8 (PVC), red	8 (PVC), red
Reach	m	9.75 – 10.75	9.75 – 10.75
Application areas		Outside area / coarse dirtOperational and machine cleaningGarage / Workshop / Hobby	Outside area / coarse dirtOperational and machine cleaningGarage/Workshop/Hobby

"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

Scope of delivery:

Accessory set HMT Household* (see page 67)



Accessory set PZ Professional accessories* (see page 67)



Accessory set HZ Plus* (from page 69)



Other accessories from page 69

Article no.		016269	016276
Scope of delivery			
Accessory set		*HMT art. no. 003009	*HMT art. no. 003009
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.)
Equipment			
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	r 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 compartment		yes	yes
Blowing function		yes	yes
Technical data			
Power consumption (max.)	Watts	1400	1400
Volume flow (max.)	l/s	69	69
Vacuum (max.)	mbar	259	259
Container volume (max.) gross - dust - water	I	20/16/10 plastic	32/28/21 plastic
Sound pressure level	dB(A)	68.5	68,5
Dimensions	$L \times W \times H$	43 × 39 × 55 cm	43 × 39 × 64 cm
Weight	kg	8.0	8.3
Power cable length	m	12 (PVC), red	12 (PVC), red
Reach	m	15.2 – 16.2	15.2 – 16.2
Application areas		 Hotel and office House and home Cleaning large areas / buildings 	Hotel and officeHouse and homeCleaning large areas / buildings





uClean LD-1435 PZ

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



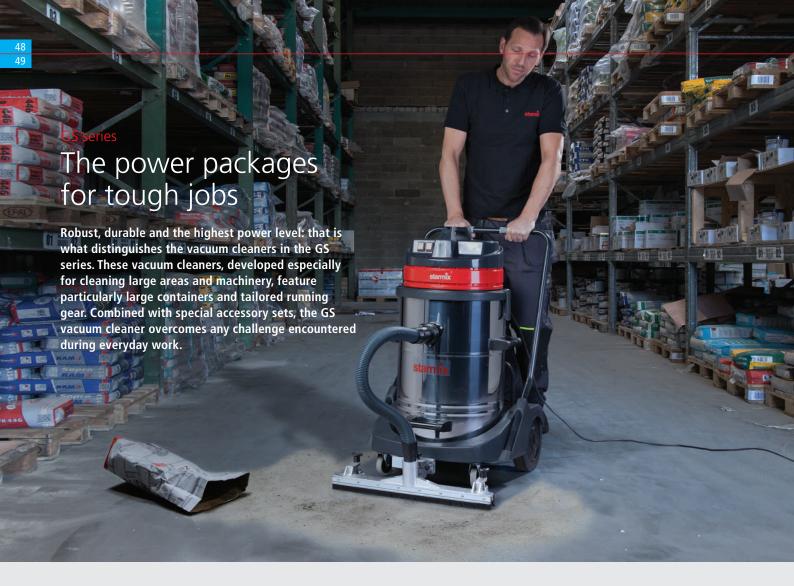
uClean LD-1445 PZ

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



uClean LD-1422 HZ plus
The vacuum cleaner (wet-dry) especially for heating boilers

Article no.		017389	016283	016399
Scope of delivery				
Accessory set		*PZ art. no. 003108	*PZ art. no. 003108	*HZ Plus, only individual parts can be ordered
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.)
Equipment				
Main filter		FPP 3600 (polyester) Dust retention capacity: 99.9 % art. no. 415109	FP 7200 (cellulose) Dust retention capacity: 99.9 % art. no. 413471	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	r 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 compartment		yes	yes	yes
Blowing function		yes	yes	yes
Technical data				
Power consumption (max.)	Watts	1400	1400	1400
Volume flow (max.)	l/s	69	69	69
Vacuum (max.)	mbar	259	259	259
Container volume (max.) gross - dust - water	1	35/30/23 stainless steel	45/40/33 plastic	22/17/10 stainless steel
Dimensions	$L \times W \times H$	46 × 44 × 70 cm	47 × 48 × 79 cm	46 × 44 × 57 cm
Sound pressure level	dB(A)	68.5	68.5	69.5
Weight	kg	9.9	12.6	9.6
Power cable length	m	12 (PVC), red	12 (PVC), red	12 (PVC), red
Reach	m	15.2 – 16.2	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 	- House and home



★ 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.

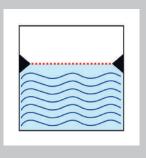
Net volume

The volume is optimally used: the container can take up to 57l of dust and up to 50l of water.



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.





Nothing is going to stop me any more!



GS 2078 PZ

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

GS 3078 PZ

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

Article no.		004020	003924
Scope of delivery			
Accessory set		* PZ, art. no. 003108	* PZ, art. no. 003108
Replacement filter		1 × polyester filter bag FSP 3100 after-sales art. no. 413501	1 × polyester filter bag FSP 3100 after-sales art. no. 413501
Paper filter bag		1 × FB 78, art. no. 413044 (5 pcs.)	1 × FB 78, art. no. 413044 (5 pcs.)
Equipment			
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
Appliance socket		no	no
Speed controller		no	no
Noise reduction		no	no
Carry handle with cable hool	k	yes/no	yes/no
Tilting running gear		yes	yes
Gentle start/after-running		no	no
Water level detection		yes	yes
Antistatically prepared		yes	yes
Accessory compartment		no	no
Technical data			
Power consumption (max.)	Watt	2400	3600
Volume flow (max.)	l/s	$2 \times 54 = 108 \text{ (2 motors)}$	$3 \times 54 = 162$ (3 motors)
Vacuum (max.)	mbar	205	205
Container volume (max.) gros - dust - water	I	78/57/50 steel	78/57/50 steel
Sound pressure level	dB(A)	77	79
Dimensions	$L \times B \times H$	61.5 × 63 × 97 cm	61.5 × 63 × 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



X Scope of delivery:

Accessory set PZ Professional accessories* (see page 67)





★ Optional accessories:

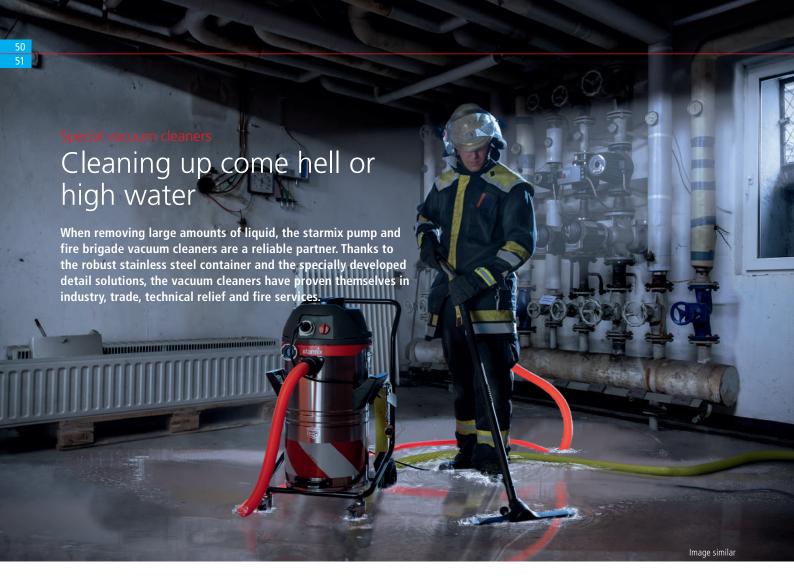
FS 2078/3078 (see page 65)



Water filter WF 3200 (see page 73)



Other accessories from page 69





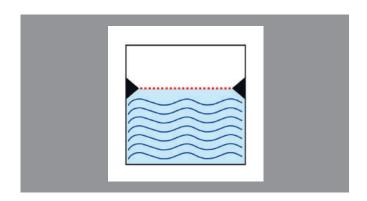
The starmix pump vacuum cleaners

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
- Reflector safety stripes

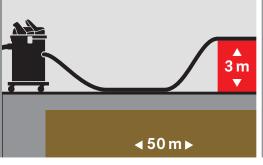


Water stop

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

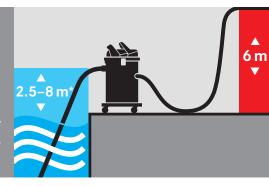
Integrated pump/ Maximal delivery distance

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



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



Special vacuum cleaners

Water vacuum cleaner with integrated pump

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









Image similar

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 pressuretight socket/plug connector

			3
Article no.		019086	019093
Scope of delivery			
Accessories		*Pump vacuum cleaner individual parts	*Fire service vacuum cleaner individual parts
Replacement filter		1 × FSS 1200 (foam material) after-sales art. no. 413297	1×FSS 1200 (foam material) after-sales art. no. 413297
Filter bag		1 × FSN 80, art. no. 424071	1 × FSN 1000, art. no. 424569
Equipment			
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
Speed controller		yes, 2-level	yes, 2-level
Hose winding / connector fixt	ure	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
Technical data			
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.) gross - dust - water	1	55/50/43 stainless steel	55/50/43 stainless steel
Sound pressure level	dB(A)	73.0	73,0
Dimensions	$L \times W \times H$	52 × 51 × 100 cm	52 × 51 × 92.7 cm
Weight	kg	21.0	19,8
Power cable length	m	8 (PVC) incl. FI circuit breaker	8 (PVC) incl. FI circuit breaker
Reach	m	13.0 – 14.0	13.0 – 14.0
Pump delivery output (max.)	l/min	330	330
Pump delivery output in suction mode (delivery height	2m) l/min	300	300
Pumping height in full suction	n mode m	2.5	2.5
Pumping height in slurping m	ode m	5 – 8	5 – 8
Delivery height (max.)	m	8	8
Delivery distance (max.)	m	55	55

Scope of delivery:

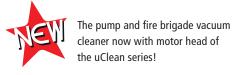
Pump vacuum cleaner individual parts* (see from page 69)



Fire brigade vaccum cleaner individual parts* (see from page 69)











★ 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.





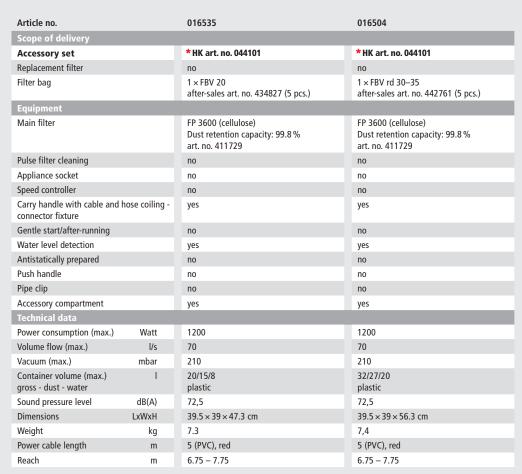
For quick use it is just the right thing!



All-purpose vacuum cleaner with 20l container

eSwift 1232 HK

All-purpose vacuum cleaner with 32l container

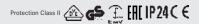




Scope of delivery:

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







† 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.



TS 714 RTS HEPA

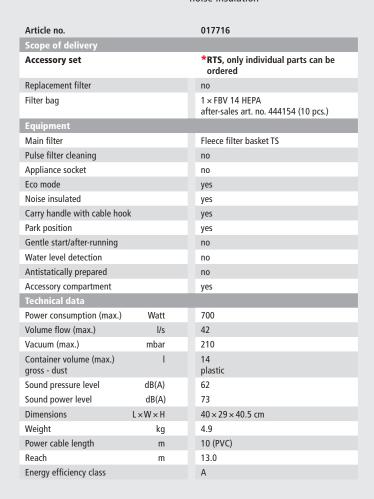
Dry vacuum cleaner: Quiet, compact, powerful suction

The new dry vacuum cleaner is 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 714 RTS HEPA

The small dry vacuum cleaner with noise insulation



Filter system

- ★ HEPA fleece filter H13 ideal for people who are allergic to house dust High dust retention capacity of 99.95 %
- ★ 5-layered, tear-prooven fleece filter material
- ★ Filter cassette EPA E12 easy filter change
- ★ Use with filter bag or fleece filter basket

Small, powerful, agile – specially for dry cleaning.





Scope of delivery:

RTS accessories* (from page 69)



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
- $1 \times$ upholstery nozzle 10 TS (10 cm wide), art. no. 436418

Other accessories from page 69







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:

Ronja K. about the new 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."



Johann 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."





Haaga sweeper series

Proven system with improved technology

Haaga sweepers are charactersized 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 additonal 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*

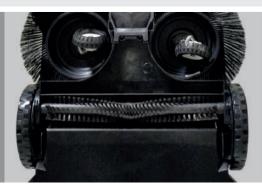
This feature helps keep the bristles of the circular brooms on the ground during use. The guiding roller offers extra protection to the bristles and chassis when sweeping near edges.

*depends on the device

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



Fine dirt brush



THE ADVANTAGES OF HAAGA SWEEPERS AT A GLANCE:

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





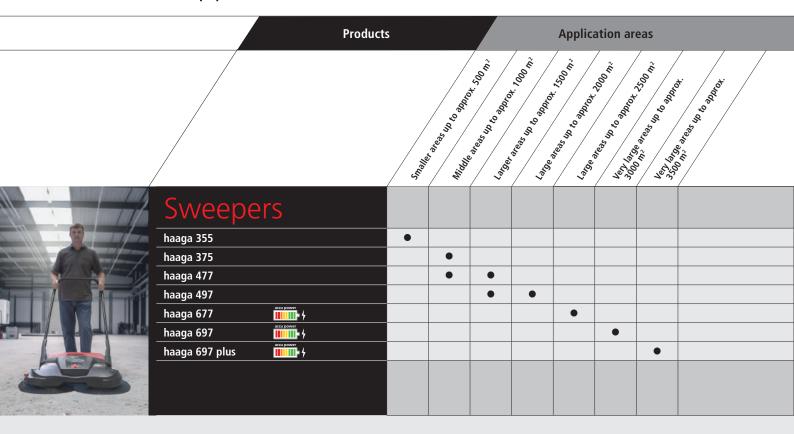
Form of the container



Waste bin

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

Decision support

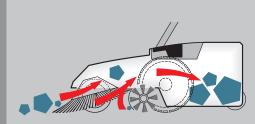


Four-year wear guarantee

guarantees full perfor-mance 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 additio-nal fine-dirt sweeping roller the machines sweep



	Sweeping frequenzy									Fe	eatures a	and techni						
100	Popular Supering	Silve and s	Smooni	Thoin on the state of the state	inee, and on the same	tou.	"T'ONE 5'00-000	to. Tour	Secies, Comp.	Seally Holling	thon, sit low	mic pout prince, to but	Paties	Though Huming the	Weight,	Super	outilia sou.	<u> </u>
•			55	у	у	у	on one side	n	n	n	n	у	n	1,600	7.2	20		
•			75	n	у	n	n	n	n	n	n	n	n	2,900	11.1	50		
	•		77	у	у	у	on one side	у	у	у	у	n	n	3,000	14.6	50		
	•		97	у	у	у	on one side	у	у	у	у	n	n	3,600	15.7	50		
	•		77	у	у	у	on one side	у	у	у	у	n	90 min.	3,600	20.2	50		
	•		97	у	у	у	on one side	у	у	у	у	n	90 min.	4,100	21.1	50		
	•		97	у	у	у	on one side	у	у	у	у	n	120 min.	4,100	21.1	50		
																		NING

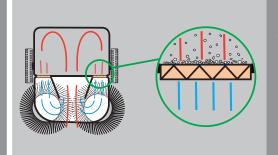


The system of the rotating disc brushes

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



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



haaga 355

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

haaga 375

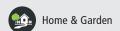
For occationally use for mediumsized areas up to approx. 1,000 m^2 .

haaga 477 Profi

For commercial use for larger areas up to approx. $1,500 \text{ m}^2$.

Article no.	095097	095332	095325			
Equipment						
iSweep	yes	no	yes			
Turbo sweeping system	yes	yes	yes			
Disc brushes projecting on both sides	yes	yes	yes			
Lateral guidance	yes – on one side	no	yes – on one side			
Brush pressure pad	no	no	yes			
Brush height adjustment	yes	yes – infinitely variable	yes – infinitely variable			
Gearbox protected against dirt	no	no	yes			
Ergonomic push handle	no	no	yes			
Height-adjustable telescopic push handle	yes	no	no			
Flexible seals for low-dust sweeping	no	no	yes			
Fine dirt brush	yes	yes	yes			
Battery-powered	no	no	no			
Technical data						
Operating principle	Turbo sweeping system	Turbo sweeping system	Turbo sweeping system			
Brush drive	manually	manually	manually			
Sweeping width cm	55	75	77			
Container volume (max.)	20	50	50			
Sweeping capacity m ² /h	1,600	2,900	3,000			
Weight kg	7.2	11.1	14.6			
Application areas	Home and garden	Filling stations, workshops, car parks, yards	Filling stations, workshops, car parks, yards, warehouses, production halls			

Explanation of pictogram:







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 497 Profi

095189

For commercial use for large areas up to approx. $2,000 \text{ m}^2$.

haaga 677 Profi

095363

yes

ves

yes

yes

yes – on one side

yes – infinitely variable

For commercial use for large areas up to approx. $2,500 \text{ m}^2$. Battery powered or manual.

095349

yes yes

yes

ves

yes

halls

yes – on one side

yes – infinitely variable

haaga 697 Profi

For commercial use for very large areas up to approx. 3,000 m². Battery powered or manual.

haaga 697 Profi plus

on one side

infinitely variable

Running time: approx. 120 min. Charging time: approx. 9 hours

095370

yes

yes

ves

yes

yes no yes yes

halls

yes –

yes –

For commercial use for very large areas up to approx. 3,500 m². Battery powered or manual.

yes
yes
yes
yes – on one side
yes
yes – infinitely variable
yes
yes
no
yes
yes
no
Turbo sweeping system
manually
97
50
3,600
15.7
Filling stations, workshops, car parks, yards, warehouses, production halls

yes
yes
yes Running time: approx. 90 min. Charging time: approx. 7 hours
Turbo sweeping system
electrically or manually
77
50
3,600
20.2
Property management, cleaning companies, filling stations, workshops, car parks, yards, warehouses, production halls

,
no
yes
yes
yes Running time: approx. 90 min. Charging time: approx. 7 hours
Turbo sweeping system
electrically or manually
97
50
4,100
21.1
Property management, cleaning companies, filling stations, workshops,

car parks, yards, warehouses, production

Turbo sweeping system
electrically or manually
97
50
4,100
21.1
Property management, cleaning companies, filling stations, workshops,

car parks, yards, warehouses, production

Recommendations for special cases





Antistatic equipment

All starmix vacuum cleaners with sockets for craftsmen are "antistatically prepared". This means that they have an electrically fed intake fitting, which is connected to the earthing cable. Electrostatic charges can be caused by the friction of the dust in the suction hose, which can then discharge under sparking. Furthermore, the electrostatic attraction increases the contamination of the suction hose. To avoid this and non-dangerous, yet unpleasant electric shocks, some of our vacuum cleaners (iPulse Safe Plus) are already equiped with an antistatic suction hose. For the other vacuum cleaners from all series we offer an antistatic suction hose optional. See accessories, page 76.



NANO Filter

Health-endangering dusts demand certain safety measures, e.g. a dust retention capacity of the filter of least 99.9 %. The FKPN 3000 NANO filter and FPN 3600 NANO filter provides better cleaning results than a filter without NANO coverage. The dust particles cling less strongly to this specially covered surface - thus longer and more convenient work is possible. For use with ISP- / ISC- L and M vacuum cleaners or uClean and eSwift vacuum cleaners. See accessories, page 70/71.







Intermateable hoses

To bridge large distances between the vacuum cleaner and the vacuum zone, two 5 metre long suction pipes can easily be joined together. Distances greater than 10 metres may - depending on the material being vacuumed - result in a loss of suction. This is negligible with fluff or fine, light dust, but may become more obvious with heavier materials. See accessories, page 76.



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 ISC power tool vacuum cleaner can be used to vacuum an office floor in no time at all. See accessories, page 67.





Nozzle set



- Equipment

 1 × crevize 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 use in skilled trades or for special cleaning applications! The nozzle set comes in very handy when cleaning the nooks and crannies in a car, 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 501 and GS 451 and 55 l containers. See accessories, page 69.





FS 2078/3078

art. no. 012070

Equipment incl. suction hose, ø 49 mm × 1,1 m with brush strips for GS 2078 and 3078

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



CONTENT

^ E	- C - D	
NL	T'D	Λ L I
UD .	L D	АГІ

CLEANING

ACCESSORIES

- **Bohrfixx**
- **Accessories sets** for all applications
- Special accessories for iPulse

Consumables

- Filter bags
- Main filter
- Additional filters for use as a pre-filter
- Special filters

Special accessories

for pump vacuum cleaner

Optional accessories

- Floor nozzles
- Special nozzles/brushes
- Tube handles, Suction tubes, adapters, hose connecting sleeves/tool adapters
- Suction hoses
- Others
- **Certification marks**



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.













Material: impact resistant ABSplastic (polypropylen) Weight: 133.5 g

Dimenstions (W \times H \times T)

Art. no.: 011370, language version D

Art. no.: 011462, language version ((GB/RU/PL/HR/CZ)

Accessory sets for all applications

EWS trade and industry accessories



art. no. 072401



- 1 × suction hose*, ø 35 mm × 5 m, art. no. 413235
- $1 \times$ tube handle, stainless steel with supplementary air slide, art. no. 421445
- 2 × suction tubes, stainless steel (each 50 cm), art. no. 424842
- 1 × crevize 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*, ø 35 mm × 5 m art. no. 413235
- 1 × connecting sleeve for electric power tools, stepped, art. no. 425719

EW standard supplementary

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
- × 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

Equipment

art. no. 015859



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

EHP electric power tools (professional)



art. no. 016542

Equpiment

- $1 \times \text{suction hose*}$, ø 35 mm × 3,2 m art. no. 413228
- $1 \times \text{tube handle, plastic with supplementary air}$ slide, art. no. 424804
- 2 × suction tubes, plastic (each 50 cm) art. no. 424859
- × 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

Equpiment

- 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 x coarse dirt nozzle art. no. 417943

Accessory sets for all applications

PZ Professional accessories



Art. no. 00 31 08



Equipment

- 1 x suction hose*, ø 35 mm x 3.2 m Art. no. 41 32 28
- 1 x tube handle, stainless steel with supplementary air slide, Art. no. 42 14 45
- 2 x suction tubes, stainless steel (each 50 cm) Art. no. 42 48 42
- 1 x crevice nozzle (37 cm long), Art. no. 41 70 28
- 1 x fine suction brush, Art. no. 41 80 32
- 1 x professional floor nozzle 45 with brush and rubber strips Art. no. 41 65 19

HMT Household



Art. no. 00 30 09

Equipment

- 1 x suction hose*, ø 35 mm x 3.2 m Art. no. 41 32 28
- 1 x tube handle, stainless steel with supplementary air slide, Art. no. 42 14 45
- 1 x suction tube, telescopic, stainless steel 57-95 cm; infinitely adjustable, Art. no. 425573
- 1 x crevice nozzle (22 cm long) Art. no. 417011
- 1 x upholstery nozzle (12 cm wide) incl. insert brush, Art. no. 418452
- 1 x professional universal nozzle 29 (reversible) Art. no. 414454
- 1 x water nozzle 26, Art. no. 44 09 34

HK house / hobby

Art. no. 04 41 01

Equipment

- 1 x suction hose*, ø 35 mm x 1.75 m Art. no. 41 15 07
- 1 x tube handle, plastic with supplementary air slide, Art. no. 42 48 04
- 2 x suction tubes, plastic (each 50 cm), Art. no. 42 48 59
- 1 x crevice nozzle (22 cm long), Art. no. 41 70 11
- 1 x upholstery nozzle (12 cm wide) Art. no. 41 84 52
- 1 x universal nozzle 25 (reversible) Art. no. 47 44 47
- 1 x water nozzle 26. Art. no. 44 09 34

ST standard 49 mm (coarse dirt)



Art. no. 04 43 09

Equipment

- 1 x suction hose*, ø 49 mm x 1.75 m Art. no. 41 42 56
- 2 x suction tubes, plastic (each 50 cm) Art. no. 42 56 10
- 1 x coarse dirt crevice nozzle (16 cm long) Art. no. 41 76 39
- 1 x coarse dirt floor nozzle 36 (36 cm wide) Art. no. 41 67 31
- 1 x coarse dirt nozzle Art. no. 41 79 43

MZ machines



Art. no. 04 01 03

Equipment

- 1 x suction hose*, oil resistant ø 49 mm x 3.0 m Art. no. 41 42 01
- 1 x crevice nozzle, steel (25 cm long) Art. no. 41 70 35
- 1 x rubber nozzle oil-resistant (20 cm long) Art. no. 42 57 02
- 1 x adapter, 49 mm to 35 mm system Art. no. 42 56 41

FS driving nozzle for GS 2078/3078

Art. no. 01 20 70

Equipment

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

Width: 61.5



Nozzle set 35/49



Art. no. 01 41 42

Equipment

1 x crevice nozzle (37 cm long) Art. no. 41 70 28

Art. no. 42 56 41

- 1 x fine suction brush Art. no. 41 80 32
- 1 x suction brush Art. no. 41 84 07
- 1 x upholstery nozzle Art. no. 41 84 52 1 x adapter, 49 mm to 35 mm system



Special accessories for iPulse

		Accessory system mm Ø	Length or width cm	Special features, material	Order no EAN 4011240
Accessories for iPulse					
Push handle					
<	FB 35	-	-	Set push handle incl. pin plug, for all iPulse vacuum cleaners For comfortable driving of the vacuum cleaners. For easy mounting to the container. (plug in – ready)	445137
Accessory holder					
FINIT	Accessory holder	_	_	4 holders for wobble free fixation of the accessory, parking position for floor nozzles	445113
Smartfix					
	Rail set	_	_	Rail set, 2 pcs. (left and right) for mount on iPulse vacuum cleaner. Incl. 2 \times velcro and Spax screws	445106
starboxes					
	starbox II FBV 25/35	_	-	Systainer size II filled with fleece filter bag FBV 25/35 (5-pack) box suitable for all ISP vacuum cleaner with smartfix	444451
	starbox II safety	_	_	Systainer size II filled with PE emtying 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 filled with filter cassette FKP 4300 (2 pcs. = 1 set) box suitable for all ISP vacuum cleaner with smartfix	444468
	starbox V EW Bau Supplementary set	-	-	Systainer size V filled with BG Bau accessory set: 1 × Floor nozzle 30 (art. no. 440941) 2 × Suction tube plastic (each 50 cm) (art. no. 424859) 1 × Tube handle, plastic with supplementary air slide (art. no. 424804) box suitable for all ISP vacuum cleaner with smartfix	444444
	starbox V EW Supplementary set	-	-	Systainer size V filled with EW Standard Supplementary set: 1 × Tube handle, stainless steel, with supplementary air slide (art. no. 421445) 2 × Suction tube, stainless steel (each 50 cm) (art. no. 424842) 1 × Crevize nozzle (22 cm long) (art. no. 417011) 1 × Dust nozzle 37 with hard-floor insert (art. no. 414706) box suitable for all ISP vacuum cleaner with smartfix	444437

Consumables

		Accessory system mm Ø	Length or width cm	Special features, material	Order no EAN 4011240
Filter bag					
Filter bag for NSG-/NTS series ((also suitable for HS-/GS-/AS units)				
DK.	Fleece filter bag, double-layered – IFA	(BIA) tested	d/dust class	"M"	
8	FBV 20 (5 pcs.) FBV 20 (10 pcs.)	_	-	for all 20 – 22l plastic and steel containers 3060 cm² large package – contains 10 pieces per box	434827 434971
Filter bag for ISP, ISC and NSG	series (also suitable for IS/HS/GS/AS unit	ts)			
CHIC .	Fleece filter bag, double-layered – IFA	(BIA) tested	d/dust class	"M"	
	FBV 25/35 (5 pcs.) FBV 25/35 (10 pcs.)	_	_	for all 25 and 35l plastic containers 5160 cm ² large package – contains 10 pieces per box	411231 434988
Filter bag for NSG and NTS seri	ies (also suitable for HS/GS/AS units)				
Ö	Fleece filter bag, double-layered – IFA	(BIA) tested	d/dust class	"M"	
S • 18	FBV rd 30 – 35 (5 pcs.)	_	_	for all round 30 – 35I plastic and stainless steel 6150 cm ²	442761
Service and	FBV rd 30 – 35 (10 pcs.)			containers large package – contains 10 pieces per box	442778
Filter bag for ISP, ISC and NSG	series (also suitable for IS/HS/GS units)				
	Fleece filter bag, double-layered – IFA	(BIA) tested	d/dust class	"M"	
Image: Control of the	FBV 45 – 55 (5 pcs.)	_	_	for all 45 – 35l plastic, steel and stainless steel 8190 cm ²	435039
	FBV 45 – 55 (10 pcs.)			containers large package – contains 10 pieces per box	435176
File Mag for TS 714 RTS HEPA					
	Fleece filter bag, triple-layered – IFA (BIA) tested/	dust class	"M" – (10 pieces = 1 set)	
	FBV 14 HEPA (10 pcs.)	_	_	only for dry vaccum cleaner TS 714 RTS HEPA, 5-layered tearprooven 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 GS 2078 +3078					
	Paper filter bag, double-layered – IFA	(BIA) tested	/ dust class	"M" – (5 pieces = 1 set)	
***	FB 78 (5 pcs.)	_	-	for 78l steel container 13000 cm ² only for GS 2078 + 3078	413044
PE emptying and disposal bags	for ISP and ISC series				
	Emptying and disposal bag (5 pieces =	= 1 set)			
and the state of t	FBPE 50 (5 pcs.) for IS "M" and "H"	_	-	Polyethylen, for IS with 50l container	421742
M 38 3	FBPE 25/35 (5 pcs.) for ISP iPulse, IS/ISC "M" and "H"	-	-	Polyethylen, for ISC/ISP iPulse with 25 and 35l container	425764
O stands	FBPE 35 (5 pcs.) for ISP iPulse "H asbestos"	-	-	Polyethylene, with "Asbestos" marking !! Observe disposal regulations !! for ISP iPulse with 35l container	425757
0	FBVPE 25/35 (5 pcs.) for "iPulse" / "ISC" "M" and "H"	-	-	Safety filter bag, polyethylene with inlay fleece filter bag. For all iPulse / ISC "M" and "H" vacuum cleaners with 25 and 35 liter container and new rotary slide, produced from october 2017!! !! Observe disposal regulations !!	445267

		Accessory system mm Ø	Length or width cm	Special features, material	Order no EAN 4011240
Main filter					
Folded filter for ISP iPulse, ISC,	IS series				
	Cellulose – Dust retention: 99.8 %				
	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 cm² 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. 	416038
	Polyester – class "M" – Dust retention	ո։ 99.9%			
	FKP 4300	_	_	 2 × cellulose folded filter cassettes with insertion rib filter material IFA (BIA) tested in accordance with dust class "M" Filter surface area: 8600 cm² 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. 	416069
	Polyester – class "H"/"HEPA" – Dust	retention: 9	9.995 %		
	FKP 4300 HEPA	_	_	- 2 × polyester folded filter cassettes with insertion rib IFA (BIA) certified filter in accordance with dust class "H" (HEPA 14) - Filter surface area: 8600 cm ² - 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 reten	tion: 99.97	/ ₆	
nano	FKPN 3000 NANO	-	-	- 2 × 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 ² - Material: nano-layered polyester - Dust retention capacity: 99.9% As with folded filter cassette FKP 4300, but with additional nano-coating. Especially suited to fine dusts containing fibre; e.g. when cutting and sanding Fermacell, drywall and MDF boards.* + 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 NSG, H	HS, GS, NTS, AS series without vibrator (r	ot suitable	for GS 2078	3/3078)	
	Polyester – Dust retention: 99.9 %				
	FPP 3200	_	_	 1 × polyester folded filter cartridge Filter surface: 3200 cm² 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. Only for GS 2078 and GS 3078 PZ. 	413525

		Accessory system mm Ø	Length or width cm	Special features, material	Order no EAN 4011240
Folded filter cassette for NSG, F	IS, GS, NTS and AS series without vibrate	or (not suita	ble for GS 2	2078/3078)	
	Cellulose – Dust retention: 99.8 %				
	FP 3600 FP 7200	-	-	 1 x cellulose folded filter cassette ** Filter surface area: 3600 cm²/7200 cm² 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 × polyester folded filter cassette ** Filter surface area: 3600 cm² Material: polyester Dust retention capacity: 99.9 % Folded filter cassette for vacuuming industrial dust, sawdust, brick, drilling and milling dust and other similar substancee*. 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 %				
nano	FPN 3600 NANO	-	-	 1 × nano-layered polyester folded filter cassette Filter surface area: 3600 cm² 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
Folded filter cassette for NSG, H	HS, GS and NTS series with vibrator				
	Polyester – Dust retention: 99.9 %				
	FPPR 3600 FPPR 7200	-	-	- 1 × polyester folded filter cassette ** - Filter surface area: 3600 cm²/7200 cm² - Material: Polyester - Dust retention capacity: 99.9 % Folded filter cassette for vacuuming industrial dust, sawdust, brick, drilling and milling dust and other similar substancee*. 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 × HEPA folded filter cassette - IFA (BIA) certified filter for units of dust class "H" (HEPA 14) - Filter surface area: 7200 cm ² - 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

		Accessory system mm Ø	Length or width cm	Special features, material		Order no. EAN 4011240
Filter for dry vacuum cleaner						
	Filter basket					
	Fleece filter basket TS	_	-	for dry vacuum cleaner TS 714 RTS HEPA und TS 1214 RTS		436135
Additional filters for	r use as a pre-filter					
	Cotton wool filter bag					
	FST 3000 K FST 4000 K	-	-	for all 20l plastic containers für alle 32-/45-l-Behälter (Material: cotton)	3000 cm ² 4000 cm ²	411743 413280
	Polyester filter bags					
	FSP 3100			for GS 2078 + GS 3078 complete with filter ring and filter insert	3100 cm ²	413501
	FSP 3500			for all 20/22l containers	2500 cm ²	415666
	FSP 5000	-	-	for all 30 – 55l containers (material: polyester)	4000 cm ²	443522
Special filters						
	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 ²	413297
•	Wet filter bag NFB	-	-	3 bags = 1 set For IS 50l and GS 45l and 55l containers	6500 cm ²	420592
	FSN 80 Wet filter bag Mesh size 80µ	-	-	Polyamide fabric suitable for water filters included in the scope of delivery of pump vacuum cleaner 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 E12 Cassettefilter	_	-	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
Pump vacuum clean	er				
10	GEKA-C coupling			for fire service C-hose	424187
	Drain hose red	33	100	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
Floor nozzles					
	Universal nozzle 25 reversible	35	25	Plastic, can be switched to brush insert, floor side made of plastic	414447
	Floor nozzle 26 Hard-floor insert 26	35 _	26 26	Plastic, floor nozzle complete with 3 inserts (hard-floor insert, water insert, carpet insert) plastic, with 2 brush strips	434773 414478
	Water insert 26	_	26	plastic, with 1 \times rubber and 1 \times brush strip	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 × rubber and 1 × brush strip)	440934
	Water insert 26	_	26	plastic, with 1 \times rubber and 1 \times brush strip	414485
	Professional universal nozzle 29 reversible	35	29	Plastic, can be switched to brush insert, with large roller Floor side made of metal	414454
1	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
_	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 Hard-floor insert 37	35	37	Plastic, floor nozzle with hard-floor insert (2 brush strips and rollers) Plastic with 2 brush strips and rollers	414706 414539

		Accessory system mm Ø	Length or width cm	Special features, material	Order no. EAN 4011240
	Water nozzle 37 Water insert 37	35	37	Plastic, floor nozzle with water insert (2 rubber strips and rollers) Plastic, with 2 rubber strips and rollers	414713 414546
	Aluminium professional floor nozzle 45 Brush strip set 45 Rubber strip set 45	35	45	Aluminium, complete with 2 brush strips and 2 rubber strips, rollers front and back front and back	416106 436548 436616
	Professional floor nozzle 45 Rubber strip set 45 Brush strip set 45	35	45	Plastic/aluminium, complete with 2 brush strips and 2 rubber strips, rollers Rubber strip set Brush strip set	416519 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
	Floor nozzle 30	35	30	Plastic, according to the regulations of BG Bau, Dimensions of suction intake: 28 × 70 mm	440941
Special nozzles/brushe	S				
	Crevice nozzle 23 TS	32	23	for dry vacuum cleaner TS 714 RTS HEPA and TS 1214 RTS	436388
	Crevice nozzle 22 Crevice nozzle 37 Crevice nozzle, steel 25	35 35 35	22 37 25	Plastic Plastic Steel	417011 417028 417035
	Crevice nozzle coarse dirt 16	49	16	Plastic	417639
	Coarse dirt nozzle	49	19	Plastic	417943
	Scratching nozzle, angled Scratching nozzle, straight	35 35	48 48	Steel, for cleaning heating boilers Steel, for cleaning heating boilers	417950 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
1	Upholstery nozzle 10 TS	35	12	for dry vacuum cleaner TS 714 RTS HEPA, also suitable for TS 1214 RTS	436418
1	Upholstery nozzle	35	12	Plastic, with thread lifter	418452
A	Aluminium suction nozzle 12	35	12	Aluminium (incl. brush insert)	419763
	Radiator brush	-	-	Plastic Only to be used with crevice nozzles no. 417028	419794
Tube handles					
	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
Suction tubes					
	Suction tube, aluminium 32-50 TS	32	50	for dry vacuum cleaner TS 714 RTS HEPA and TS 1214 RTS	436425
	Suction tube ES 35 – 50 Suction tube 35 – 50	35 35	50 50	Stainless steel, with click-in lock suitable for all vacuum cleaners, tubes and accessories with Ø 35 mm Plastic, grooved	424842 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	425610
Adapters					
	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 2×49 mm suction hoses; only in conjunction with tube connection no. 58 37 23	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
Hose connecting sleeve	es/tool adapters				
	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, oil-resistant cone with connection with electric power tools, tapering from 28.0 – 38.0 mm outer ø	425702

		Accessory system mm Ø	Length or width cm	Special features, material	Order no. EAN 4011240
e	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	508580
Suction hoses					
Electrically conductive					
	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
	Hose AS 35 – 320 (black)	35	320	Pipe connection, rotatable for stainless steel tube handle bayonet connection rigid, abrasion-proof	414164
шинимовання стру	Hose AS 35 – 500 (black)	35	500	Pipe connection, rotatable for stainless steel tube handle bayonet connection rigid, abrasion-proof intermateable and extendable	426563
Normal type					
	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
0	Hose 32 – 250 TS (incl. handle)	32	250	suitable only for dry vacuum cleaner TS 714 RTS HEPA und TS 1214 RTS	436326
	Hose 35 – 175 (black)	35	175	Both connections rigid – intermateable and extendable	411507
	Hose 35 – 320 Hose 35 – 500	35 35	320 500	Grey – both connections rotatable – can be pushed together and extended Grey – both connections rotatable – can be pushed together and extended	413228 413235

		Accessory system mm Ø	Length or width cm	Special features, material	Order no. EAN 4011240		
	Hose 35 – 500 (red) signal red	35	500	Signal red – both connections rotatable – can be pushed together and extended	423616		
	Bayonet connection 35 rotatable Pipe connection 35 rotatable	35 35	-	Plastic, rotatable, break-proof, electrically conductive Plastic, rotatable, break-proof, electrically conductive	426594 425733		
	Hose 49 – 175 Hose 49 – 300 Hose 49 – 500 Hose 49 – 300 oil-resistant Bayonet connection 49 rigid Pipe connection 49 rigid	49 49 49 49 49	175 300 500 300	Grey – both connections rigid Grey – both connections rigid Grey – both connections rigid Grey – both connections rigid, oil-resistant Plastic, rigid Plastic, rigid	414256 414225 415758 414201 529752 583723		
Others							
~	Push handle FB 35			Set push handle + spring cotter pin for all iPulse 35l containers For comfortable driving of the vacuum cleaner For easy mounting on the container (plugg in - ready)	445137		

Sales promotion

Further information on the sales promotion measures can be found in the separate "Sales promotion" leaflet. Please contact us under infoe@starmix.de.



Explanation of the certification marks							
Ď¥E Ì	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.	IP24	Protection against the penetration of foreign bodies $\varnothing > 12$ mm. Protection against sprayed water from all directions.				
gapathe Sabelines	Certified safety. Equipment must satisfy the generally approved practices of engineering and conform to the Equipment Safety Act.	ERC	The certification is compulsory for a variety of products based on the safety test (IEC standards with Russian deviations).				
EMV	The VDE test seal for electromagnetic compatibility.	CE	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.				
	Insulated housing (Protection Class II). The unit does not require a protective earth.	Sound pressure	Sound measured in aacordance with DIN EN 60704-1 and DIN EN 60704-2-1 (standardised survey method).				
Intertek	Intertek is a worldwide leading company when it comes to testing, inspecting and certifying electric and gas-powered products.						

starmix for sanitary:



ST YOUR SHOW THE SHO



•

ELECTROSTAR GmbH

Stuttgarter Straße 36 D-73262 Reichenbach/Fils Telephone +49 (0) 7153/982-0 Fax +49 (0) 7153/982-307 info@starmix.de

Domestic sales

Telephone +49 (0) 7153/982-300 Fax +49 (0) 7153/982-307 info@starmix.de

Export sales

Telephone +49 (0) 7153/982-100 Telefax +49 (0) 7153/982-348 infoe@starmix.de

Customer service/spare parts service

Central customer service workshop U & W GmbH Jakob-Wolf-Str. 26 63179 Obertshausen Telephone +49 (0) 6104/60 05 100

Telephone +49 (0) 6104/60 05 100 Fax +49 (0) 3212/12 39 075 service@starmix.de



Visit us on Facebook www.facebook.com/ElectrostarStarmix







Further information under www.starmix.de

