

# HEFTER CLEANTECH

HIGH QUALITY AND BEST FUNCTIONALITY



*Simple & clever*

INNOVATIVE  
CLEANING SYSTEMS





For more than 20 years, the Bavarian company develops, manufactures and markets high-quality cleaning machines that technologies convince.

The company, which is based in Prien at lake Chiemsee, was founded by George Hefter in 1993. For his existing company, the machine engineering company HEFTER, he was looking for a cleaning machine, which meets his demands of clever machine features and high quality. Unsatisfied with the products available in the market, he had his engineers develop several own prototypes, which would fit to his requirements. Following up HEFTER cleantech delivers its innovative cleaning machines today into more then 30 countries worldwide.



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**HEFTER**  
**CLEANTECH**

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## TURNADO®

### T E C H N O L O G Y

Depending on system implementation, the scrubber drier head, including suction and squeegees, can be redated between 200° left and right or 360° endless during full operation.

This allows the user to clean and to dry in all working directions, including backward. The scrubber drier head therefore is always operating in working direction. This feature reduces cleaning time and increases cleaning efficiency by reducing manual work.

Cleaning right to the wall, into corners, edges and narrow path's through TURNADO® technology.



## VARIOTECH®

### T E C H N O L O G Y

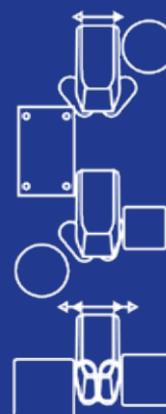
VARIOTECH® opens up a new dimension when it comes to automatic floor cleaning systems. Cost efficiency, flexibility and reduction of manual work up to 30% reduces over all cost of the total cleaning process.

With the support of this technologie the scrubber drier head including suction can be adjusted to different floor profiles.

This allows cleaning with only one machine in large areas as well as narrow path's and under obstacles, such as shelves.

Labor cost accounts for up to 90% of the total cleaning cost. Manual cleaning of difficult to reach areas such as niches or under shelves, pallets and pedestals is reduced to a minimum.

Saving time and money is the main reason to use VARIOTECH® technology.



# CONVERT<sup>®</sup>

TECHNOLOGY

CONVERT<sup>®</sup> - the only convertible stand on multi-purpose cleaning system for scrubberdrying, burnishing, sweeping, polishing and crystallizing. CONVERT - the best combination between work behind and ride-on.

Simple and fast changing of the various floor care aggregats enables the system to be used for different applications. This opens up a complete new approach to floor care system investments.

By using a carrier system holding different working heads, there is no need to have multiple separate systems available.

This increases efficiency, allows not only to reduce system expenditure but also decreases labor cost.



# QUICK-CHANGE<sup>®</sup>

TECHNOLOGY

The Quick-Change-System enables a simple and easy battery change at your HEFTER cleantech cleaning machine and enlarges the operating time in that way.

**Quick-Change works in a simple and timesaving way:**

- Just hook the mobile Quick-Change-Cart into your cleaning system
- Pull out the battery-case
- Unhook the cart and attach a cart with a fully charged battery
- Push the new battery-case into the machine

That makes re-charging at your cleaning system a matter of minutes.

After that your HEFTER Cleantech machine is immediately ready for use again. In that way the Quick-Change-System provides very flexible usage times. Even the usage 24 hours a day is possible.



# BLUESAVE<sup>®</sup>

TECHNOLOGY

BlueSave<sup>®</sup> enables you to save resources and to preserve the environment at the push of a button. In cleaning process all machine functions are not needed at highest level permanently. In reducing unnecessary output, you'll not only preserve the environment, but also your money. By activating BlueSave<sup>®</sup>, some of not fully needed machine functions are reduced to a lower level:

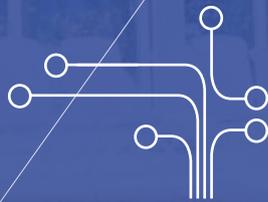
- Lower water volume of an environmentally friendly cleaning
- Reduces driving speed for a lower consumption and longer battery runtimes
- Reduced vacuum for a lower environmental footprint and lower power consumption
- Reduces use of detergents for an environmentally more friendly cleaning

This leads to less wearout, longer maintenance periods, a reduced usage of detergents and clean water and finally a longer machine working life.





*Simple & clever*



### **HIGH CLASS TECHNOLOGY PROVIDING HIGH EFFICIENCY**

The highly efficient HEFTER cleantech cleaning machines do not only shorten the cleaning time and thereby the working hours, but protecting through their sustainable functionality the environment. Therefore they are made out of durable stainless steel. The suction units are based directly behind the scrubbing unit. Together with squeegees, which fit ideally to different floor profiles, the vacuum units provides a fast drying even of large areas. The floor is dry and walk-able immediately after cleaning – without slip hazards, which is among others very important for the usage in hospitals. Additionally the machines can clean to the wall even in edges. By this ability, manually dry-wiping right after the machine is not necessary which makes the usage of a second worker unnecessary. A special advantage of this unique machine construction is the low vacuum bar width which is not more than the machine width. That provides an easy access through doors or niches!



### **CUSTOMIZED SOLUTIONS BY MANY VARIANTS OF MACHINES**

HEFTER cleantech presents a number of specific product modules that provide flexible solutions in professional cleaning. The patented TURNADO technology provides a unique brush head that turns – including vacuum unit - at 360° endless. Thereby machinery cleaning is possible in all directions, even backwards. Another patented technology, the VARIOTECH system, provides a cleaning wing, that moves in and out automatically, to fit to different area profiles. That enables the machinery cleaning of niches or places underneath shelves or handrails as well as big areas. The CONVERT technology is another module that provides polishing abilities. Within seconds, the cleaning machine can be converted from a scrubber drier to a polishing machine.



## ADDITIONAL BENEFIT SUSTAINABILITY



All HEFTER cleantech cleaning machines work wireless with batteries at a run time of up to 4 hours. And by using QUICK CHANGE, the batteries can be exchanged easy and fast, which makes permanent cleaning very uncomplicated. HEFTER cleantech cleaning machines do work with fresh water, which is filled in tanks up to 220 liter. Especially for the usage in cleaning machines developed detergents - some of them surfactant free – are dosed into the fresh water tank. By regulation of driving speed and thereby fresh water outtake the consumption of fresh water and detergents is limited. The silent function reduces noise pollution of the environment. All functions of the more than 20 different models are shown and presented within Germany by own sales reps at the customers place. In Germany HEFTER cleantech additionally provides sustainable maintenance and service concepts. Spare parts are provided up to 10 years after machine production ends.



# SCRUBBER - DRIER





## PRODUCT FEATURE

- Roller brush
- 2-tank-System
- Variabel contact pressure
- Battery and charger included
- Battery type, maintenance free
- Transport wheels
- Straight suction bar
- Easy access to all parts

## IDEAL FOR TO CLEAN

- Smaller retail sales rooms
  - Kitchen
- Small and misaligned storages spaces
  - Garages
- Hotel and Office entrance areas
  - Sales room
- Locker room and restrooms
  - and much more

## CONVINCING ADVANTAGES

- Up to +/- 200° rotatable brush head.
- Easy operation in tight corners, if necessary, cleaning and vacuuming can also be done in reverse.
- The brush is always transverse to the direction of travel.
- The squeegee blade reliably absorbs the water in every corner.
- Includes high-performance lithium-ion battery. Completely maintenance-free despite a service life that is three times longer than conventional batteries.
- Quick charging (full in 3 hours, half full in 1 hour). Interim or partial charging is also possible where necessary.
- Saves resources and extends running period by up to 50%.
- 40% reduction in noise level.
- Riving away from the wall is possible at a 90° angle.
- Compact design - No device protrusions; easy handling.

## TECHNICAL DATA

## TURNADO® 35

Brush working width	350 mm
Vacuum working width	450 mm
Tankvolume fresh water	12 l
Tankvolume dirt water	12 l
Weight	35 kg
Dimensions (LxBxH)	1000 x 450 x 1300 mm
<b>Motor performance</b>	
Power rating	500 W
<b>Working performance</b>	
Brush contact pressure	150 g/cm <sup>2</sup>
Brush speed	700-1500 U/min
Max. area performance	1400 m <sup>2</sup> /h
Max. water supply	0,3-0,85 l/min
<b>Battery</b>	
Frequency	50-60 Hz
Voltage	220-240 V
Battery capacity	21 Ah
Battery voltage	25,2 V



### The **TURNADO**® 35

Manoeuvrable, user-friendly and easy-to-maintain, this scrubber drier is a highly professional and efficient tool for cleaning small areas and cluttered surfaces. The machine is fitted with a rotatable roller brush head with **TURNADO**® technology, making it perfect for tight corners. Can also clean in reverse if necessary (due to lack of space etc). The new lithium-ion battery has a prolonged running time, making it 3 times more durable than normal lead batteries. It is completely maintenance-free and quick to recharge. The machine's lightweight design helps you to negotiate steps and facilitates transportation. The eco! Efficiency mode reduces energy consumption, increases the running time and lowers the volume by around 40%. Never cleaning was so simply and, besides, has given so much pleasure.



### PRODUCT FEATURE

- Plastic tank
- Control tower ergonomically designed, adjustable height and angle
- Tool-free changing of brushes
- Charger onboard

### IDEAL FOR TO CLEAN

- Smaller retail sales rooms
  - Kitchen
  - Garages
  - Sales room
- Small and misaligned storages spaces
  - Hotel and Office entrance areas
  - Locker room and restrooms
  - and much more

### CONVINCING ADVANTAGES:

- Closed dirt water tank
- Simple, easy handling and support
- Flexible and agile
- No separate tank on the steering column
- Permanently high brush pressure
- Extremely compact dimensions
- Simple service access

### TECHNICAL DATA

### TURNADO® 38

Working width	380 mm
Width of curve suction unit	460 mm
Total length	850 mm
Total width	500 mm
Total height	1030 mm
Underclearance	630 mm
Tankvolume fresh water	15 l
Tankvolume dirt water	23 l
Total operation weight (incl. 25 Ah Gel-battery)	77 kg
<b>Working performance</b>	
Theoretical cleaning rate	1200 m <sup>2</sup> /h
Pressure brush/pad	2,7/0,5 N/cm <sup>2</sup>
Noise level	71 dB
<b>Motor performance</b>	
Brush motor	250 W
Vacuum motor	300 W
<b>Battery</b>	
Voltage	24 V
Capacity (maintenance free Gel-battery)	25 Ah
Working hour per battery (depending on floor and dirt)	max 1 h



## The **TURNADO® 38**

has the ideal dimensions for small sized rooms with relative limited space. With a cleaning capacity of 1200 square meters and hour, the **TURNADO® 38** outperforms a mop at any time. A mop is dipped into the same - already dirty - water every time. In doing that, you disperse the dirt across the whole area. In contrary the **TURNADO® 38** is using fresh water at every centimeter of cleaning. Additionally the floor is dry again immediately.

You can use the machine even while the business is running.



### PRODUCT FEATURE

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- Roller brush
- 2-tank-system
- Variable contact pressure
- Battery and charger included
- Lithium-battery, maintenance free
- Transport wheels
- Straight vacuum bar

### CONVINCING ADVANTAG

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- Up to +/- 200° rotatable brush head
- Extremely manoeuvrable, but effective and powerful
- The squeegee blade reliably absorbs the water in every corner
- Freshwater-level displayed
- Run-off hose at dirt water tank
- Transport mode
- Powerful Lithium-Ion Battery Battery lifetime 3 times longer than standard batteries
- Battery runtime approx. 2-3 h
- Quick battery charging (full in 3 h, half-full in 1 h) Brush working width 450 mm Interim or partial charging is also possible if necessary
- 40% reduction in noise level thanks to Eco mode
- Very easy and intuitive handling
- Compact design - No device protrusions

### TECHNICAL DATA

### TURNADO® 45

Brush working width	450 mm
Vacuum working width	550 mm
Tank volume fresh water	22 l
Tank volume dirt water	22 l
Weight	48 kg
Dimensions (LxWxH)	920 x 550 x 1300 mm
<b>Motor performance</b>	
Power rating	550 W
<b>Working performance</b>	
Brush pressure	150 g/cm <sup>2</sup>
Brush speed	650-1000 U/min
Max. area performance	1800 m <sup>2</sup> /h
Water supply	0,4-1,4 l/min
<b>Battery</b>	
Battery capacity	42 Ah
Battery voltage	25,2 V
Frequency	50-60 Hz
Voltage	220-240 V

(Right for technical changes reserved)

Version 01.2017



### The **TURNADO**® 45

Manoeuvrable, user-friendly and easy-to-maintain, this scrubber drier is a highly professional and efficient tool for cleaning small areas and cluttered surfaces. The machine is fitted with a rotatable roller brush head with **TURNADO**® technology, making it perfect for tight corners. Can also clean in reverse if necessary (due to lack of space etc). The new lithium-ion battery has a prolonged running time, making it 3 times more durable than normal lead batteries. It is completely maintenance-free and quick to recharge. The machine's lightweight design helps you to negotiate steps and facilitates transportation. The eco! Efficiency mode reduces energy consumption, increases the running time and lowers the volume by around 40%. Never cleaning was so simply and, besides, has given so much pleasure.



### PRODUCT FEATURE

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- Plastic tank
- Control tower ergonomically designed, adjustable height and angle
- 400° turn able scrubbing and suction head

### CONVINCING ADVANTAGES

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- Reduction of hand cleaning of difficult areas thanks to the scrubbing and suction head rotational 400°
- Corners and niches, such as shelves, in halls and passage ways can be easily cleaned
- Cleaning under superstructures like counters, shelves or work benches
- Long operational time between fill ups thanks to large volume tanks
- Easy handling
- Compact dimensions
- Very manoeuvrable
- 10 years guarantee on the stainless steel chassis

### TECHNICAL DATA

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### TURNADO® 55

Working width brushes/pads	550 mm
Working width vacuum bar	680 mm
Turn able scrubbing and suction head <b>TURNADO®</b>	bis 400°
Width of passage	670 mm
Housing width	408 mm
Housing length	710 mm
Total length	920 mm
Total height	1150 mm
Tankvolume (dirt and fresh water tank)	je 45 l
Max. surface pressure	2,8 N/mm <sup>2</sup>
Max. weight (with 105 Ah gel batteries)	223 kg
Dead weight (with 105 Ah gel batteries)	178 kg
<b>Working performance</b>	
Theoretical cleaning rate (at 4,5 km/h)	2475 m <sup>2</sup> /h
Max. speed	4,5 km/h
Max. water supply	ca. 3,5 l/min
Noise level	75 db
Noise level SILENT function	69 db
Pressure brush	2,2 N/cm <sup>2</sup>
Pressure pad	0,5 N/cm <sup>2</sup>
<b>Motor performance</b>	
Brush motor	2 x 190 W
Vacuum motor	500 W
Drive motor	110 W
<b>Battery</b>	
Voltage	24 V
Capacity (maintenance free gel batteries)	105 Ah
Working hour per Battery (depending on floor and dirt)	up to 2 1/2 h
HEFTER reserves the right to make technical changes)	Version 01.2017



### The **TURNADO**® 55

This patented scrubber drier from HEFTER cleantech essentially reduces cleaning-time. Previously inaccessible areas which had to be hand cleaned, e.g. corners and niches, can now benefit from the superior results of a machine. The scrubbing and suction head rotational 400° of the **TURNADO**® 55 gives a uniform result over the entire cleaning area.



## PRODUCT FEATURE

## PUBLIC POOL VERSION

- Plastic tank
- 360° turnable scrubbing and suction head
- Soft back wheels to provide a smooth driving
- Contol tower ergonomically designed, adjustable height and angle
- Stainless steel hub and driving wheel
- Splash water protection of brush head

## CONVINCING ADVANTAGES

- Durable plastic tank
- Driving wheel and -hub out of stainless steel - Especially for the use in acidic environments (chlorline) and applications of acidic detergents
- Soft back wheels to provide smooth driving on floor tiles with bigger gaps
- Plastic cover of the brush head provides water splash predection
- Reduction of hand cleaning in difficult areas thanks to the scrubbing and suction head redational 360°
- Corners and niches, such as shelves, in halls and passage ways can be easily cleaned
- Long operational time beetween fill up thanks to large tank volumes
- Easy handling and compact dimensions
- Very manoeuverable
- 10 years guarantee on the stainless steel chassis

## TECHNICAL DATA

## TURNADO® 55 SV

Working width brushes/pads	550 mm
Working width vacuum bar	680 mm
Turn able scrubbing and suction head <b>TURNADO®</b>	360° endless
Width of passage	670 mm
Housing width	408 mm
Housing length	710 mm
Total length	920 mm
Total height	1150 mm
Tankvolume (dirt and fresh water tank)	je 45 l
Max. surface pressure	2,8 N/mm <sup>2</sup>
Max. weight (with 105 Ah gel batteries)	223 kg
Dead weight (with 105 Ah gel batteries)	178 kg
<b>Working performance</b>	
Theoretical cleaning rate (at 4,5 km/h)	2475 m <sup>2</sup> /h
Max. speed	4,5 km/h
Max. water supply	approx. 3,5 l/min
Noise level	75 db
Noise level SILENT function	69 db
Pressure brush	2,2 N/cm <sup>2</sup>
Pressure pad	0,5 N/cm <sup>2</sup>
<b>Motor performance</b>	
Brush motor	2 x 190 W
Vacuum motor	500 W
Drive motor	110 W
<b>Battery</b>	
Voltage	24 V
Capacity (maintenance free gel batteries)	105 Ah
Working hour per Battery (depending on floor and dirt)	up to 2 1/2 h
HEFTER reserves the right to make technical changes)	Version 01.2017



The **TURNADO® 55 SV** public pool version provides all advantages of **TURNADO® 55 / 55 PRO** - perfectly balanced for the usage in public pool areas. Its endless turnable scrubber- and suction head cleans nearly everywhere, e.g. in edges, niches or narrow spots such as changing cubicles.



### PRODUCT FEATURE

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- Aluminium tank
- Control tower ergonomically designed, adjustable height and angle
- Endless turn able scrubbing and suction head

### CONVINCING ADVANTAGES

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- Reduction of hand cleaning of difficult areas thanks to the scrubbing and suction head endless rotational
- Corners and niches, such as shelves, in halls and passage ways can be easily cleaned
- Cleaning under superstructures like counters, shelves or work benches
- Large volume tanks provide a long operational time between fill ups
- Easy handling
- Compact dimensions
- Very manoeuvrable
- 10 years guarantee on the stainless steel chassis

### TECHNICAL DATA

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### TURNADO® 55 PRO

Working width brushes/pads	550 mm
Working width vacuum bar	680 mm
Turn able scrubbing and suction head <b>TURNADO®</b>	360° endless
Width of passage	670 mm
Housing width	408 mm
Housing length	710 mm
Total length	920 mm
Total height	1150 mm
Tankvolume (dirt and fresh water tank)	each 50 l
Max. surface pressure	2,8 N/mm <sup>2</sup>
Max. weight (with 105 Ah gel batteries)	223 kg
Dead weight (with 105 Ah gel batteries)	178 kg
<b>Working performance</b>	
Theoretical cleaning rate (at 4,5 km/h)	2475 m <sup>2</sup> /h
Max. speed	4,5 km/h
Max. water supply	approx. 3,5 l/min
Noise level	75 db
Noise level SILENT function	69 db
Pressure brush	2,2 N/cm <sup>2</sup>
Pressure pad	0,5 N/cm <sup>2</sup>
<b>Motor performance</b>	
Brush motor	2 x 190 W
Vacuum motor	500 W
Drive motor	110 W
<b>Battery</b>	
Voltage	24 V
Capacity (maintenance free gel batteries)	105 Ah
Working hour per Battery (depending on floor and dirt)	up to 2 1/2 h
HEFTER reserves the right to make technical changes)	Version 01.2017



## The **TURNADO**<sup>®</sup> 55 PRO

This patented scrubber drier from HEFTER cleantech essentially reduces cleaning-time. Previously inaccessible areas which had to be hand cleaned, e.g. corners and niches, can now benefit from the superior results of a machine.

The scrubbing and suction head rotational 360° of the **TURNADO**<sup>®</sup> 55 PRO gives a uniform result over the entire cleaning area. Even backwards, the scrubbing and suction head always turns in work-direction itself.



### PRODUCT FEATURE

- Plastic tank
- Control tower ergonomically designed, adjustable height and angle
- 400° turn able scrubbing and suction head
- Tool-less brush exchange

### CONVINCING ADVANTAGES

- Reduction of hand cleaning of difficult areas thanks to the scrubbing and suction head rotational 400°
- Corners and niches, such as shelves, in halls and passage ways can be easily cleaned
- Open tank design for an optimum in hygiene
- Long operational time between fill ups thanks to large tank volumes
- Tank out of hard-wearing plastic
- **BlueSave®** System\* enables environmentally friendly cleaning with best use of available resources
- Fully automatical lifting and lowering of the scrubber head
- Separate detergent dosing unit

### TECHNICAL DATA

### TURNADO® 68

Working width brushes/pads	680 mm
Working width vacuum bar	751 mm
Turn able scrubbing and suction head <b>TURNADO®</b>	400°
Width of passage	751 mm
Total width	567 mm
Total length	1266 mm
Total height	1157 mm
Tankvolume (dirt- and fresh water tank)	60 / 65 l
Max. surface pressure	0,96 N/mm <sup>2</sup>
Max. working weight (mit 120 Ah gel batteries)	291 kg
Dead weight (with 105 Ah gel batteries)	226 kg
<b>Working performance</b>	
Theoretical cleaning rate (at 4,5 km/h)	3740 m <sup>2</sup> /h
Max. speed	5,5 km/h
Max. water supply	approx. 3,5 l/min
Noise level	69 db
Noise level SILENT function	66 db
Noise level Silent Pro	60 db
Pressure brush	1,6 N/cm <sup>2</sup>
Pressure pad	0,4 N/cm <sup>2</sup>
<b>Motor performance</b>	
Brush motor	3 x 150 W
Vacuum motor	500 W
Drive motor	200 W
<b>Battery</b>	
Voltage	24 V
Capacity (maintenance free gel batteries)	up to 120 Ah
Working hour per Battery (depending on floor and dirt)	approx. 3 h
(HEFTER reserves the right to make technical changes)	Version 01.2017



### The **TURNADO**® 68

represents the next generation of our established and well known **TURNADO**® technology. It cleans into all edges and niches – without the need of extra hand cleaning – thanks to its 400° turn able brush- and vacuum head. Because of its new, open tank layout for an optimum in hygiene and its unique features the **TURNADO**® 68 represents the next step into future.

UNIQUE MACHINE FEATURES IN MACHINE OPTIONS

**TURNADO**® 68

• Page 62 & 63



### PRODUCT FEATURE

- Mechanical lifting and lowering of the scrubber head
- 82 cm working width -> manually reducible to 66 cm
- Same control unit as **TURNADO® 55 PRO**
- No Quick-Change - Battery-System

### CONVINCING ADVANTAGES

- Reduction of hand cleaning of difficult areas thanks to the infinitely variable swing out scrub and suction units
- Especially effective: cleaning close to edges, shelves, pallets, walls and pedestals
- Economical cleaning of narrow passages and open areas with one machine on the basis of automatic adjustable working width
- Easy handling
- Extremely compact dimensions, thereby very agile
- Less change of water through a big tank volume
- 10 years guarantee on the stainless steel chassis

### TECHNICAL DATA

### VARIOTECH® 82

Working width <b>VARIOTECH®</b> brushes	660 - 820 mm
Working width <b>VARIOTECH®</b> vacuum bar	760 - 980 mm
Housing width	535 mm
Total length	1030 mm
Total height	1130 mm
Tankvolume (dirt and fresh water tank)	each 100 l
Max. surface pressure	1,7 N/mm <sup>2</sup>
Max. working weight (with gel batteries)	385 kg with 180 Ah
Dead weight (with gel batteries)	285 kg with 180 Ah
<b>Working performance</b>	
Theoretical cleaning rate (at 4,5 km/h)	3690 m <sup>2</sup> /h
Max. speed	5 km/h
Max. water supply	8,9 l/min
Noise level	72 db
Noise level SILENT function	69 db
Control swing out scrub	mechanical
Stroke mechanism cleaning head	mechanical
<b>Motor performance</b>	
Brush motor	500 W
Vacuum motor	500 W
Drive motor	400 W
<b>Battery</b>	
Voltage	24 V
Capacity (maintenance free gel batteries)	160/180 Ah
Working time (dependent on floor, batteries and dirt)	up to 2 - 4 h
(HEFTER reserves the right to make technical changes)	Version 01.2017



### The **VARIOTECH**® 82

This machine is mechanically or automatically operated concerning positioning the scrubber head and the work position of the wing. The permanent cleaning width of 82 cm is reducible by pressure to 66 cm.

It is pushed back to its original cleaning width after passing the barrier.



## PRODUCT FEATURE

- Fully automatical lifting and lowering of the scrubber head
- 82 cm working width -> reducible to 66 cm by pressing a button
- Electronical fresh water reserve display
- **Quick-Change®** Battery-System
- Signal-horn

## CONVINCING ADVANTAGES

- Reduction of hand cleaning of difficult areas thanks to the infinitely variable swing out scrub and suction units
- Especially effective: cleaning close to edges, shelves, pallets, walls and pedestals
- Economical cleaning of narrow passages and open areas with one machine on the basis of automatic adjustable working width
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## TECHNICAL DATA

## VARIOTECH® 82 PRO

Working width <b>VARIOTECH®</b> brushes	660 - 820 mm
Working width <b>VARIOTECH®</b> vacuum bar	760 - 980 mm
Housing width	535 mm
Total length	1030 mm
Total height	1130 mm
Tankvolume (dirt and fresh water tank)	each 100 l
Max. surface pressure	1,7 N/mm <sup>2</sup>
Max. working weight (with gel batteries)	420 kg with 180 Ah
Dead weight (with gel batteries)	320 kg with 180 Ah
<b>Working performance</b>	
Theoretical cleaning rate (at 4,5 km/h)	3690 m <sup>2</sup> /h
Max. speed	5 km/h
Max. water supply	8,9 l/min
Noise level	72 db
Noise level SILENT function	69 db
Control swing out scrub	electrical
Stroke mechanism cleaning head	electrical
<b>Motor performance</b>	
Brush motor	500 W
Vacuum motor	500 W
Drive motor	400 W
<b>Battery</b>	
Voltage	24 V
Capacity (maintenance free gel batteries)	160/180 Ah
Working time (dependent on floor, batteries and dirt)	up to 2 - 4 h
(HEFTER reserves the right to make technical changes)	Version 01.2017



### The **VARIOTECH® 82 PRO**

This machine is mechanically or automatically operated concerning lifting and lowering to the scrubber head and the work position of the wing. The permanent cleaning width of 82 cm is reducible by pressure to 66 cm. It is pushed back to its original cleaning width by a gas spring.



### PRODUCT FEATURE

- Fully automatical lifting and lowering of the scrubber head
- 112 cm working width -> reducible to 71 cm by pressing a button
- Electronical fresh water reserve display
- **Quick-Change®** Battery-System
- Additional brush pressure level
- Signal-horn

### CONVINCING ADVANTAGES

- Reduction of hand cleaning of difficult areas thanks to the infinitely variable swing out scrub and suction units
- Especially effective: cleaning close to edges, shelves, pallets, walls and pedestals
- Economical cleaning of narrow passages and open areas with one machine on the basis of automatic adjustable working width
- Easy handling
- Extremely compact dimensions, thereby very agile
- Less change of water through a big tank volume
- 10 years guarantee on the stainless steel chassis

### TECHNICAL DATA

### VARIOTECH® 112 PRO

Working width <b>VARIOTECH®</b> brushes	710 - 1120 mm
Working width <b>VARIOTECH®</b> vacuum bar	790 - 1240 mm
Housing width	640 mm
Total length	1320 mm
Total height	1095 mm
Tankvolume (dirt and fresh water tank)	each 130 l
Max. surface pressure	1,8 N/mm <sup>2</sup>
Max. working weight (with gel batteries)	542 kg with 220 Ah
Dead weight (with gel batteries)	412 kg with 220 Ah
<b>Working performance</b>	
Theoretical cleaning rate	5500 m <sup>2</sup> /h
Max. speed	5 km/h
Max. water supply	8,9 l/min
Noise level	72 db
Noise level SILENT function	69 db
Control swing out scrub	electrical
Stroke mechanism cleaning head	electrical
Fast start / stop operator control with one button	yes
Comfort operating tower	yes
<b>Motor performance</b>	
Brush motor	2 x 500 W
Vacuum motor	500 W
Drive motor	400 W
<b>Brushes / Pads</b>	
Pressure brush/Pad	2,3/0,5 N/cm <sup>2</sup>
Diameter	285 mm
<b>Battery</b>	
Voltage	24 V
Capacity (maintenance free gel batteries)	180/220 Ah
Quick-Change® Battery-System	yes
Working time (depending on floor, battery and dirt)	2 - 4 h
(HEFTER reserves the right to make technical changes)	Version 01.2017



### The **VARIOTECH**® 112 PRO

This machine with **VARIOTECH**® technology, automatically operated concerning lifting and lowering to the scrubber head and the work position of the wing. The permanent cleaning width of 112 cm is reducible by pressure to 71 cm. It is pushed back to its original cleaning width by a gas spring.



RIDE - ON MACHINE





## CRUCIAL FACTS OF FLOOR CLEANING

- Reducing cleaning time
- Reducing labour costs
- Minimizing the numbers of machines

## CONVINCING ADVANTAGES

- Economical cleaning of narrow passages and open areas with just one machine on the basis of automatic adjustable working width
- Easy handling
- Ergonomically designed controls
- Around-the-clock use is no problem thanks to **Quick-Change®** Battery-System
- Minimizing the numbers of machines
- Long working time through big tank volume
- Extremely compact dimensions
- Fast start/ stop operator control with just one button
- 10 years guarantee on stainless steel chassis

## TECHNICAL DATA

## FS 82

Working width brushes	660 - 820 mm
Working width vacuum barn	760 - 980 mm
Turn able scrubbing and suction head <b>TURNADO®</b>	up to 400°
Housing width	760 mm
Total length	1730 mm
Total height (without rolling bar)	1370 mm
Width of passage	760 mm
Tankvolume (dirt and fresh water tank)	each 150 l
Max. surface pressure	0,6 N/mm <sup>2</sup>
Max. working weight (with 275 Ah batteries, driver and water)	815 kg
Dead weight (with 275 Ah batterie driver)	665 kg
<b>Working performance</b>	
Theoretical cleaning rate	4510 m <sup>2</sup> /h
Max. speed	5,5 km/h
Max. water supply	ca. 8,9 l/min
Speed adjusted water supply	yes
Noise level cleaning / SILENT function	72/66 db
Fast start / stop operator control with one button	yes
<b>Motor performance</b>	
Brush motor	500 W
Vacuum motor	1 x 500 W
Drive motor	400 W
<b>Brushes / pads</b>	
Pressure brush / Pad	1,8/0,4 N/cm <sup>2</sup>
Diameter	285 mm
<b>Battery</b>	
Voltage	24 V
Capacity (maintenance free gel batteries)	275 Ah
Capacity (wet cell batteries)	300 Ah
Working time (depending on floor, battery and dirt)	2 - 4 h
Quick-Change® Battery-System	yes



## The FS 82

The HEFTER technologies **VARIO TECH**® and **TURNADO**® are combined in the Ride-on machines. This enables maximum flexibility and agility for mechanical floor cleaning:

- Backwards cleaning
- Cleaning in dead ends, corners and niches
- Easy cleaning close to edges



## CRUCIAL FACTS OF FLOOR CLEANING

- Reducing cleaning time
- Reducing labour costs
- Minimizing the numbers of machines

## CONVINCING ADVANTAGES

- Economical cleaning of narrow passages and open areas with just one machine on the basis of automatic adjustable working width
- Easy handling
- Ergonomically designed controls
- Around-the-clock use is no problem thanks to **Quick-Change®** Battery-System
- Minimizing the numbers of machines
- Long working time through big tank volume
- Extremely compact dimensions
- Fast start/ stop operator control with just one button
- Additional brush pressure level
- 10 years guarantee on stainless steel chassis

## TECHNICAL DATA

## FS 112

Working width brushes	710 - 1120 mm
Working width vacuum barn	790 - 1240 mm
Turn able scrubbing and suction head <b>TURNADO®</b>	up to 400°
Housing width	760 mm
Total length	1730 mm
Total height (without rolling bar)	1370 mm
Width of passage	830 mm
Tankvolume (dirt and fresh water tank)	each 150 l
Max. surface pressure	0,65 N/mm <sup>2</sup>
Max. working weight (with 275 Ah batteries, driver and water)	830 kg
Dead weight (with 275 Ah batterie driver)	680 kg
<b>Working performance</b>	
Theoretical cleaning rate	8960 m <sup>2</sup> /h
Max. speed	8 km/h
Max. water supply	ca. 8,9 l/min
Speed adjusted water supply	yes
Noise level cleaning / SILENT function	72/66 db
Fast start / stop operator control with one button	yes
<b>Motor performance</b>	
Brush motor	2 x 500 W
Vacuum motor	2 x 500 W
Drive motor	900 W
<b>Brushes / pads</b>	
Pressure brush / Pad	2,3/0,5 N/cm <sup>2</sup>
Diameter	285 mm
<b>Battery</b>	
Voltage	24 V
Capacity (maintenance free gel batteries)	275 Ah
Capacity (wet cell batteries)	300 Ah
Working time (depending on floor, battery and dirt)	2 - 4 h
Quick-Change® Battery-System	yes



## The FS 112

The HEFTER technologies **VARIO TECH**® and **TURNADO**® are combined in the Ride-on machines. This enables maximum flexibility and agility for mechanical floor cleaning:

- Backwards cleaning
- Cleaning in dead ends, corners and niches
- Easy cleaning close to edges



### CONVINCING ADVANTAGES

- Economical cleaning of narrow passages and open areas with just one machine on the basis of automatic adjustable working width
- Easy handling
- Ergonomically designed controls
- Around-the-clock use is no problem thanks to **Quick-Change®** Battery-System
- Minimizing the numbers of machines
- Additional brush pressure level
- Long working time through big tank volume
- Fast start/ stop operator control with just one button
- Extremely compact dimensions
- 10 years guarantee on stainless steel chassis

### TECHNICAL DATA

### FS 112 XXL

Working width brushes	710 - 1120 mm
Working width vacuum barn	790 - 1240 mm
Turn able scrubbing and suction head <b>TURNADO®</b>	up to 400°
Housing width	760 mm
Total length	1730 mm
Total height (without rolling bar)	1520 mm
Width of passage	830 mm
Tankvolume (dirt and fresh water tank)	each 220 l
Max. surface pressure	0,71 N/ mm <sup>2</sup>
Max. working weight (with 275 Ah batteries, driver and water)	915 kg
Dead weight (with 275 Ah batterie driver)	695 kg
<b>Working performance</b>	
Theoretical cleaning rate	8960 m <sup>2</sup> /h
Max. speed	8 km/h
Max. water supply	ca. 8,9 l/min
Speed adjusted water supply	yes
Noise level cleaning / SILENT function	72/66 db
Fast start / stop operator control with one button	yes
<b>Motor performance</b>	
Brush motor	2 x 500 W
Vacuum motor	2 x 500 W
Drive motor	900 W
<b>Brushes / pads</b>	
Pressure brush / Pad	2,3/0,5 N/cm <sup>2</sup>
Diameter	285 mm
<b>Battery</b>	
Voltage	24 V
Capacity (maintenance free gel batteries)	275 Ah
Capacity (wet cell batteries)	300 Ah
Working time (depending on floor, battery and dirt)	2 - 4 h
Quick-Change® Battery-System	yes
(HEFTER reserves the right to make technical changes)	



## The FS 112 XXL

The HEFTER technologies **VARIOTECH**<sup>®</sup> and **TURNADO**<sup>®</sup> are combined in the Ride-on machines. This enables maximum flexibility and agility for mechanical floor cleaning:

- Backwards cleaning
- Cleaning in dead ends, corners and niches
- Easy cleaning close to edges

### ADVANTAGES OF FS 112 XXL

- Fresh- and dirt water tank are extra big for 50% longer cleaning intervalls per tank filling
- Available with Power steering



# ESCALATOR AND MOVING PAVEMENT CLEANER





# RF 40 / RF 40 light

## ESCALATOR AND MOVING PAVEMENT CLEANER

### CONVINCING ADVANTAGES

- Top cleaning effect on steps and risers at minimum expenditure of time
- Short set up and simple operation
- Easy transportation
- Cleaning can be done autonomous or by operator
- Just a short setup and you can start cleaning
- Cleans every type of stairs

### PRODUCT VERSIONS

- **RF 40** - Cleaning of step tops and raisers
- **RF 40 light** - Cleaning of step tops only
- **Shifting unit**  
Fixation of the **RF 40** at the escalator / moving pavement  
Automatic shifting of the **RF 40** over the complete width of the walking belt.
- **Fixing unit light**  
Fixation of the **RF 40** at the escalator / moving pavement  
Manual shifting of the **RF 40** over the complete width of the walking belt.

(Both versions of the shifting unit can be used with both machine types)

TECHNICAL DATA	RF 40	RF 40 light
Total weight (with empty tank)	59,5 kg	49 kg
Transport dimensions max.	1400 x 720 x 1100 mm	
Working width	2 x170 mm (2 roller brushes)	
Total width of cleaning unit	520 mm	
Detergent/dirty water tank	20 l-refillable / 60 l	
Detergent applied to stair treads	200 / 300 / 400 ml per Min	
Detergent applied to stair faces	50 / 100 / 150 ml per Min	no
Power supply	230 Volt /16 A (main power)	
Total power consumption	approx. 3 kW	
Cleaning of raisers	yes	no
Single-button start of all units	yes	yes
Vacuums of all kind and quantities of dirt	yes	yes

(HEFTER reserves the right to make technical changes)

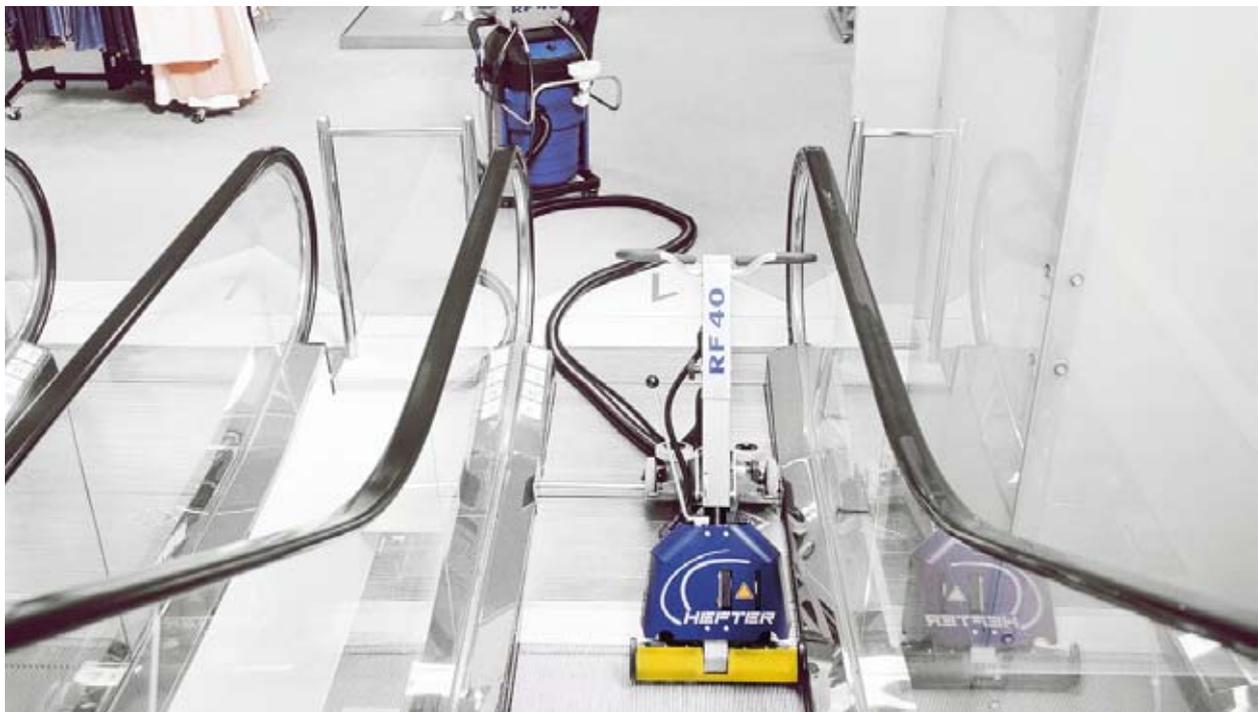
Version 01.2017



## **RF 40**

The **RF 40 / RF 40 light** are units with patented technology which is supplied ready for operation together with a modified industrial vacuum cleaner.

The **RF 40 / RF 40 light** cleans step by step as well as the riser of the escalator leaving each step super clean.





VACUUM





# SD 15

VACUUM



HIGH QUALITY AND BEST FUNCTIONALITY

## RECOMMENDED APPLICATIONS

- Hotels
- Kindergarten
- Offices
- Hospitals
- Schools



Powerful dry vacuum for professional use

### The SD 15

The SD 15 has a very good suction performance, even for the depth cleaning of heavily soiled carpets.

Thanks to the steel case, it is extra robust and the 15 m power cable enables a big working range.

The cap cover practically contains the accessory suction nozzles, which are thereby always at hand.

## TECHNICAL DATA

### SD 15

Power	1000 W
Airflow max.	86-126 m <sup>3</sup> / h
Filter area	4900 cm <sup>2</sup>
Dust bin capacity	15 l
Sound level	63-71 dB(A)
Voltage	230 V
Protection class	IP 20
Cable length	15 m
Weight	7,5 kg

(Technical changes reserved)

Version 07.2017



# SD 20

VACUUM



HIGH QUALITY AND BEST FUNCTIONALITY

## RECOMMENDED APPLICATIONS

- Construction / building cleaning
- workshops, also in connection with electrical machines for dust extraction
- Laboratories
- Food and pharmaceutical industry
- Wood industry



Compact high-performance industrial vacuum

### The SD 20

As for fine and toxic dusts and solids such as cuttings, the **SD 20** is the perfect option. It allows the combination with electric tools with high dust volume (E.g., grinding machines, CNC machines, etc.).

The two individually switchable 1150 Watt bypass suction motors (LAMB) ensure a strong suction power. Due to the powder-coated metal construction, the vacuum has a very robust body and dirt container.

The **SD 20** got an extra-large cartridge filter with 3 m<sup>3</sup> filter surface (dust class M) and excellent filtration properties. An excellent suction performance is guaranteed. The semiautomatic and very efficient filter cleaning also leads to long part lifetime.

The 20 l dust container can be lowered easily and is mobile.

## TECHNICAL DATA

### SD 20

Power	2,3 kW
Depression	2500 mm H <sub>2</sub> O
Airflow max.	360 m <sup>3</sup> / h
Filter surface	3 m <sup>2</sup>
Type of main filter	Polyester/Antistatic
Dust class	(M)
Filter occupation	120 m <sup>3</sup> /m <sup>2</sup> /h
Dust bin capacity	20 l
Suction inlet diameter	40/50 mm
Sound level	74 dB (A)
Voltage	230 V
Weight (empty)	31 kg
Dimensions (LxWxH)	500 x 480 x 1050 mm

(Technical changes reserved)

Version 07.2017



# SD 35 B

VACUUM



HIGH QUALITY AND BEST FUNCTIONALITY

## RECOMMENDED APPLICATIONS

- **Ideal for bakeries!**
- Suction of craft machines with automatic switch

## SPECIAL ADVANTAGES

- 2 x 1150 W bypass motors
- Robust steel construction for extreme requirements
- Large star filter with high filtration separation efficiency and thereby superior suction

The vacuum has a large, mobile collecting container with ergonomic lever lowering.

Powerful, compact industrial vacuum with excellent filtration characteristics

## The SD 35 B

The **SD 35 B** is equipped with a Nomex filter and nozzles for hot temperatures e.g. baking oven up to 200 ° C.

In addition, the **SD 35 B** can be used wherever performance, mobility and robustness are required. It is thus excellently suitable for the extraction of dusts and solids in numerous industrial branches.



## TECHNICAL DATA

### SD 35 B

Power	2,3 kW
Depression	2500 mm H <sub>2</sub> O
Airflow max.	360 m <sup>3</sup> / h
Filter surface	2 m <sup>2</sup>
Type of main filter	Polyester
Dust class	(L)
Filter occupation	180 m <sup>3</sup> /m <sup>2</sup> /h
Dust bin capacity	35 l
Suction inlet diameter	80/50/40 mm
Sound level	76 dB
Voltage	230 V
Weight (empty)	35 kg
Dimensions (LxWxH)	500 x 620 x 1250 mm

(Technical changes reserved) Version 07.2017



# SWD 80

VACUUM



HIGH QUALITY AND BEST FUNCTIONALITY

## RECOMMENDED APPLIKATION

- Universally applicable in almost all branches of industry
- Car Wash
- Small workshops
- coachbuilder

Wet- and dry vacuum with large collection container

### The **SWD 80**

is the universal multi - purpose vacuum, which can aspirate both liquids and solids.

Supplied with filters for both dry and wet cleaning.

The large filter area ensures a high dust separation during dry suction.

The industrial vacuum got a large wet filter for a long service life. A float prevents the container from being filled to overflowing.

It is extremely robust thanks to the powder-coated steelcontainer.



## TECHNICAL DATA

### SWD 80

Power	2,3 kW
Depression	2500 mm H <sub>2</sub> O
Airflow max.	360 m <sup>3</sup> / h
Filter surface	0,8 m <sup>2</sup>
Type of main filter	Polyester
Dust class	(L)
Dust bin capacity	80 l
Suction inlet diameter	80/50/40 mm
Sound level	76 dB (A)
Voltage	230 V
Weight (empty)	40 kg
Dimensions (LxWxH)	530 x 660 x 1080 mm

(Technical changes reserved)

Version 07.2017



# SWO 100

VACUUM



HIGH QUALITY AND BEST FUNCTIONALITY

## RECOMMENDED APPLICATION

- Large volumes of dusts and solids
- Fluids
- Oil-containing fluids

High performance industrial vacuum cleaner

### The **SWO 100**

The 3000 watt high-performance industrial vacuum cleaner **SWO 100** is equipped with a filter, which is able to withstand up to 240 degrees for a short time.

The aboveaverage filter area of 2 m<sup>2</sup> allows the suction of large quantities of fine dusts and oil-containing media.

The **SWO 100** can absorb dusts as well as solids and liquids. Its three suction motors can be activated individually. All of this makes the **SWO 100** very flexible to use.

The external filter-vibrating unit, as well as the easy to be lowered and mobile collecting container, make the vacuum particularly practicable to use.

Due to the steel construction, the vacuum is extremely robust.



## TECHNICAL DATA

### SWO 100

Power	3,45 kW
Depression	2500 mm H <sub>2</sub> O
Airflow max.	540 m <sup>3</sup> / h
Filter surface	2 m <sup>2</sup>
Filter class main filter	L
Retainer capacity	100 l
Suction inlet diameter	80 mm
Sound level	76 dB
Insulation class	F
Voltage	230 V
Weight (empty)	85 kg
Dimensions (LxWxH)	770 x 660 x 1500 mm

(Technical changes reserved)

Version 07.2017



# SWO 100-40

VACUUM



HIGH QUALITY AND BEST FUNCTIONALITY

## RECOMMENDED APPLICATION

- Machinery building
- Metal works
- Construction
- Vacuuming of clippings and cooling lubricants and it's separation



High-performance vacuum for oily dirt

### The SWO 100-40

is a specially designed industrial vacuum for machine construction companies and its requirements. The aspiration of mixed materials such as metal dusts, chippings and cooling lubricants.

Thanks to its removable collection container and a separate strainer for clippings, the SWO 100-40 allows the collection and separation of fluids mixed with metal chips and thereby a quick and effective disposal of the absorbed material.

The liquid filling quantity is clearly shown in the standpipe. Overfilling is not possible due to the built-in suction stop.

Through the powder-coated steel body the SWO 100-40 is extremely robust.

## TECHNICAL DATA

### SWD 100-40

Power	3,45 kW
Depression	2500 mm H <sub>2</sub> O
Airflow max.	540 m <sup>3</sup> / h
Filter surface	0,8 m <sup>2</sup>
Dust bin capacity (Fluid)	100 l
Dust bin capacity (Solids)	40 l
Overfill-suction-stop	ja
Suction inlet diameter	80 mm
Sound level	76 dB
Insulation class	F
Voltage	230 V
Weight (empty)	65 kg
Dimensions (LxWxH)	840 x 660 x 1250 mm
(Technical changes reserved)	Version 07.2017



VACUUM - SWEEPER &  
RIDE - ON VACUUM - SWEEPER





# KS 80

VACUUM - SWEEPER



HIGH QUALITY AND BEST FUNCTIONALITY

## CONVINCING ADVANTAGES

- Very easy to handle
- Impact-prove plastic
- Extremely easy technical service
- Height-adjustable sweeper roller and lateral brushes
- Space-saving folding hoop



## TECHNICAL DATA

### KS 80

Sweeping width (with 2 side brushes)	800 mm
Sweeping width main roller	470 mm
Sweeping principle	TRS - Tandem roller system
Power transmission	round belt
Power supply	manual
Capacity of dirt collector	40 l
Theoretical sweeping performance	2800 m <sup>2</sup> /h
Practical sweeping performance	1680 m <sup>2</sup> /h
Total length	800 mm
Total width	660 mm
Total height	330 mm
Total weight	14 kg

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## The KS 80

is the economic sweeper with the Tandem-Roller- System. With 2 counterrotatable main brushes, the KS 80 cleans all kinds of dirt.

This proves the KS 80 to be the entry level model for private areas and small business.

# KS 90

VACUUM - SWEEPER



HIGH QUALITY AND BEST FUNCTIONALITY

## CONVINCING ADVANTAGES

- Dust removal
- Brush drive
- Suitable for indoor and outdoor use
- Suitable for sand and fine dust particles
- Suitable for coarse dirt in areas of extreme application
- Suitable for areas with narrow niches
- Operates exceptionally smoothly
- Dust free
- Internal charger
- Dust - vibrator for filter cleaning



## TECHNICAL DATA

### KS 90

Sweeping width (with 2 side brushes)	900 mm
Sweeping width main roller	500 mm
Sweeping principle	TRS - Tandem roller system
Power transmission	chain
Powered sweeping roller	yes
Electrical dust removal	yes
Calculated sweeping performance	3150 m <sup>2</sup> /h
Capacity of dirt collector	50 l
Filter surface	1,1 m <sup>2</sup>
Filter cleaning	mechanical
Battery (Ah)	12 V 28 Ah
Charger (onboard)	4 A
Operation time	bis 1,5 h
Total length	1.091 mm
Total width	760 mm
Total height	416 mm

(HEFTER reserves the right to make technical changes) Version 01.2017

## The KS 90

with the unique TRS principle removes dirt and rubbish ranging from dust particles to beverage cans exceptionally thoroughly. In just one work step two counter-rotation brush rollers transport the dirt by means of a throw-over principle to the waste collector, which is filled from the top.

The **KS 90** is easy to operate, even in corners and along edges.

# KS 95

VACUUM - SWEEPER



HIGH QUALITY AND BEST FUNCTIONALITY

## CONVINCING ADVANTAGES

- Applicable for sand and fine dust
- For inside and outside
- Deep discharge protection
- Drive motor
- Very silent and agile
- Suction-shutoff
- 2 side brushes are standard
- Handle adjustable in height



## TECHNICAL DATA

### KS 95

Sweeping width (mit 2 Side brush)	900 mm
Sweeping width main roller	500 mm
Sweeping principle	TRS - Tandem roller system
Power transmission	toothed belt
Automatic main broom drive	yes
Suction system	yes
Filter surface	2,5 m <sup>2</sup>
Filter cleaning	mechanical
Airflow volume	250 m <sup>3</sup> /h
Capacity of dirt collector	60 l
Theoretical sweeping performance	3600 m <sup>2</sup> /h
Practical sweeping performance	2340 m <sup>2</sup> /h
Speed	3,7 km/h
Gradability	20 %
Total length	1150 mm
Total width	790 mm
Total height	600 mm
Total weight incl. battery	105 kg
Working time (depending on floor, driver, dirt)	up to 2 h
Battery wet cell	12 V, 80 Ah

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## The KS 95

is the universal hand-guided sweeper. It combines the advantages of extremely powerful dust extraction with the technically superior Tandem-Roller-System.

The extremely strong and impact-resistant construction ensures the KS 95 is suitable for use in the harshest of working environments.

Because of the double-thickness, rotational moulded panel design the machine works especially quiet. The large filter surface area of 2.5 m<sup>2</sup> ensures dust-free sweeping, even in critical applications. The traction drive enables the cleaning of large surface areas in a short space of time with no fatigue.

# FKS 100 PRO

RIDE - ON VACUUM - SWEEPER



HIGH QUALITY AND BEST FUNCTIONALITY

## CONVINCING ADVANTAGES

- Frame: solid, powder-coated welded laser construction, combined with extremely impact-resistant, rotation sintered polyethylene covering
- Exceptionally large dust collector and dust filter
- Quick-change mechanism for roller brushes and side brooms
- Standard: 2 side brooms
- Very easy access to technical components
- Differential drive on both back wheels



## TECHNICAL DATA

### FKS 100 PRO

Sweeping width (with 2 side brushes)	1000 mm
Sweeping width main roller	600 mm
Sweeping principle	TRS - Tandem roller system
Operation time	approx. 2,5 h
Capacity of dirt collector	70 l
Filter surface	3 m <sup>2</sup>
Filter cleaning	electrical
Gradability	20 %
Forward speed max.	6 km/h
Theoretical sweeping performance	6000 m <sup>2</sup> /h
Practical sweeping performance	4200 m <sup>2</sup> /h
Recommended net cleaning area	up to approx. 8000 m <sup>2</sup>
Total length	1191 mm
Total width	790 mm
Total height	1089 mm
Total weight (without battery)	130 kg
Power supply	Battery
Working time (depending on floor, driver, dirt)	up to 2,5 h
Battery wet cell	2 x 12 V a 105 Ah

(HEFTER reserves the right to make technical changes) Version 01.2017

## The FKS 100 PRO

With its especially solid and robust construction, the **FKS 100 PRO** is the ideal machine for daily use even under the most difficult conditions. The technically sophisticated Tandem-Roller-System (TRS) makes the **FKS 100 PRO** a machine for the optimal removal of fine and coarse dirt in professional working areas - operating quickly, thoroughly and simply.

# FKS 110 PRO

RIDE - ON VACUUM - SWEEPER



HIGH QUALITY AND BEST FUNCTIONALITY

## CONVINCING ADVANTAGES

- Load-bearing parts of powder-coated, solid steel construction
- Covering made of extremely impact resistant polyethylene (rotation formed)
- Highest possible ease of operation
- Very easy access to technical components
- Low maintenance drives due to avoidance of belts
- 2 side brooms
- No front rubber deflector: no hindrance of reception of large sweepings
- Vacuum-cleaning with 900 m<sup>3</sup>/h air volume in 4 m<sup>2</sup> dust filter
- Very large, robust and yet light dust collector

## CRUCIAL FACTS

- Extremely small turning circle
- Swivelling side brooms: avoid obstacles automatically
- Clear view of the side brooms and all sides of the chassis
- No tools necessary for changing rollers and filters



## TECHNICAL DATA

### FKS 110 PRO

Sweeping width (with 2 side brushes)	1100 mm
Sweeping width main roller	700 mm
Sweeping principle	TRS - Tandem roller system
Operation time	approx. 4 h
Capacity of dirt collector	90 l
Filter surface	4 m <sup>2</sup>
Filter cleaning	electrical
Gradability	20 %
Forward speed max.	6 km/h
Theoretical sweeping performance	6600 m <sup>2</sup> /h
Practical sweeping performance	4620 m <sup>2</sup> /h
Recommended net cleaning area	up to approx. 12000 m <sup>2</sup>
Total length	1450 mm
Total width	900 mm
Total height	1165 mm
Total weight (without battery)	209 kg
Power supply	Batterie
Working time (depending on floor, driver, dirt)	bis 4 h
Battery, maintenance free / gel	4 x 6 V a 180 Ah

(HEFTER reserves the right to make technical changes) Version 01.2017

## The FKS 110 PRO

is the productive ride-on vacuum sweeper with the unique Tandem-Roller-System (TRS). The system combines agility and exceptionally high sweeping performance. The **FKS 110** provides comfort and performance.

# FKS 130 PRO

RIDE - ON VACUUM - SWEEPER



HIGH QUALITY AND BEST FUNCTIONALITY

## CONVINCING ADVANTAGES

- Lasered steel frame for a maximum of stability
- Big sintered plastic covers enables easiest service access
- Big dust case combined with an high dump system
- Big air filter including electric filter cleaning
- Excellent ramp climbing abilities
- Easy handling
- Extremely manouverable
- 2 side brushes are included

## CRUCIAL FACTS

- Slide-in side brooms
- TRS - Tandem-Roller-System
- High grade vacuum system
- High dump system for dust case
- Key-less brush exchange



## TECHNICAL DATA

### FKS 130 PRO

Sweeping width (with 2 side brushes)	1300 mm
Sweeping width main roller	800 mm
Sweeping principle	TRS - Tandem roller system
Operation time	min. 4 h
Suction system	1200 m <sup>3</sup> /h
Capacity of dirt collector	150 l
Filter surface	6 m <sup>2</sup>
Filter cleaning	electrical
Gradability	20 %
Forward speed max.	8 km/h
Theoretical sweeping performance	13000 m <sup>2</sup> /h
Practical average sweeping performance	9100 m <sup>2</sup> /h
Recommended net cleaning area	up to approx. 50000 m <sup>2</sup>
Total length	1830 mm
Total width	1130 mm
Total height	1540 mm
Total weight (depending on product version)	670 - 850 kg
(HEFTER reserves the right to make technical changes)	Version 01.2017

## The FKS 130 PRO

is a professional ride on sweeper,  
also for heavy duty work.

The counter-rotating Tandem-Roller-System enables pickup of all kinds of dirt - from bigger stones or bottles to fine dust. Nothing stays on the floor. Moreover this machine combines it's strong performance with high manouverability and an ergonomic design.

# CLEANING CHEMICALS



# CLEANING DETERGENTS

YOUR SPECIALIST FOR EVERY DIRT



CITRUS FRAGRANCE

pH 11

## HCT CITRO

ART.-NO. // 10062377

### Description

Fresh fragrant, powerful multi purpose cleaner, highly concentrated

### Especially appropriate for the usage in:

HCT CITRO triggers powerful and fast light soiling from all washable surfaces and objects. It's suitable for plastics, metals and ceramics surfaces. In particular, for the powerful but gentle cleaning of acid and alkali sensitive materials. Due to the fresh citrus fragrance it presents the flavor of freshness.

### Appropriate at the following floorings:

Elastic floor types: linoleum, vinyl, rubber floorings

Artificial and natural stone floors: Lime stone, stoneware, marble, granite, terrazzo, and artificial stone

### Not appropriate at the following floorings:

Wooden and textile floorings

Sales unit // **12 kg** canister

### Results at a mixing ratio of 1:100 =

> up to 23 tanks of cleaning solution for TURNADO 55 / 55 PRO

> up to 19 tanks of cleaning solution for TURNADO 68

> up to 11 tanks of cleaning solution for VARIOTECH 82 / CONVERT 82 / TURNADO 82

> up to 7 tanks of cleaning solution for FS 82 / FS 112



FREE OF TENSIDES

pH 11

## HCT BASIC CLEANER

ART.-NO. // 10060263

### Description

Powerful, alkaline intensive detergent for daily cleaning

### Especially appropriate for the usage in:

Organic dirt and sediments such as dust or normal dirt from the streets

### Appropriate at the following floorings:

Elastic floor types: linoleum, vinyl, rubber floorings

Artificial and natural stone floors: Lime stone, stoneware, marble, granite, terrazzo, and artificial stone

### Not appropriate at the following floorings:

Wooden and textile flooring

Sales unit // **12 kg** canister

### Results at a mixing ratio of 1:100 =

> up to 23 tanks of cleaning solution for TURNADO 55 / 55 PRO

> up to 19 tanks of cleaning solution for TURNADO 68

> up to 11 tanks of cleaning solution for VARIOTECH 82 / CONVERT 82 / TURNADO 82

> up to 7 tanks of cleaning solution for FS 82 / FS 112

## HCT PRECISION DETERGENT

ART.-NO. // 10062411



FREE OF PHOSPHATE

pH 10,0-10,7

### Description

Highly efficient especially in the removal of oil, grease and proteins. Odor-neutralizing and phosphate-free. Especially for scrubber driers

### Especially appropriate for the usage in:

All cleaning and degreasing jobs, despite the art of dirt or character of the surface

### Appropriate at the following floorings:

Elastic floor types: linoleum, vinyl, rubber floorings

Artificial and natural stone floors: Lime stone, stoneware, marble, granite, terrazzo, and artificial stone

### Not appropriate at the following floorings:

Wooden and textile floorings

Sales unit // **10 l** canister

### Results at a mixing ratio of 1:100 =

> up to 20 tanks of cleaning solution for TURNADO 55 / 55 PRO

> up to 16 tanks of cleaning solution for TURNADO 68

> up to 10 tanks of cleaning solution for VARIOTECH 82 / CONVERT 82 / TURNADO 82

> up to 6 tanks of cleaning solution for FS 82 / FS 112

## HCT DIRT BREAKER

ART.-NO. // 10060264



FREE OF TENSIDES

pH 11,8

### Description

Strong, highly alkali intensive detergent for cleaning of hard dirt coatings in professional daily and special cleaning

### Especially appropriate for the usage in:

Stubborn organic dirt, such as fat, oils, polymer layers, or rubber abrasion stains

### Appropriate at the following floorings:

Elastic floor types: vinyl, rubber floorings

Artificial and natural stone floors: Lime stone, stoneware, marble, granite, terrazzo, and artificial stone

### Not appropriate at the following floorings:

Wooden and textile floorings, linoleum, terrazzo, artificial stone and polished granite

Sales unit // **12 kg** canister

### Results at a mixing ratio of 1:100 =

> up to 23 tanks of cleaning solution for TURNADO 55 / 55 PRO

> up to 19 tanks of cleaning solution for TURNADO 68

> up to 11 tanks of cleaning solution for VARIOTECH 82 / CONVERT 82 / TURNADO 82

> up to 7 tanks of cleaning solution for FS 82 / FS 112



FREE OF TENSIDES

pH < 1

## HCT LIMESCALE BREAKER

ART.-NO. // 10060265

### Description

Extremely powerful, very acidic dirt breaking detergent for mineral dirt

### Especially appropriate for the usage in:

Stubborn mineral dirt, such as lime stone, urine scale or cement stone in professional daily and special cleaning

### Appropriate at the following floorings:

Elastic floor types: vinyl, rubber floorings

Artificial and natural stone floors: stoneware, granite, ceramic tiles

### Not appropriate at the following floorings:

Wooden and textile floorings, linoleum, vinyl, rubber floorings, terrazzo, artificial stone and polished granite, Lime stone

Sales unit // **12 kg** canister

### Results at a mixing ratio of 1:100 =

> up to zu 23 tanks of cleaning solution for TURNADO 55 / 55 PRO

> up to zu 18 tanks of cleaning solution for TURNADO 68

> up to zu 11 tanks of cleaning solution for VARIOTECH 82 / CONVERT 82 / TURNADO 82

> up to zu 7 tanks of cleaning solution for FS 82 / FS 112



SPECIAL CLEANER

pH 8-9

## HCT SPECIAL CLEANER RF 40

ART.-NO. // 10035180

### Description

Special cleaning detergent for escalators and moving pavements.

### To be used for:

Ideal to clean all types of escalators and moving pavements

Benefit from the cleaning power of our escalator special cleaning detergent – tested in many years of usage.

Sales unit // **10 l** canister

### Results at a mixing ratio of 10% =

> More than 5 tanks

# PRODUCT VERSIONS

## SCRUBBER-DRIER

### **TURNADO® 35 complete incl.** **PCS** ARTICLE NO // 13500000

- 21 Ah lithium-ion battery **1**
- Charger onboard **1**
- Roller brush **1**

### **TURNADO® 38 complete incl.** ARTICLE NO // 10057862

- 25 Ah Gel battery **1**
- Charger onboard **1**
- Brush PP 0,8 mm grey **1**

### **TURNADO® 45 complete incl.** ARTICLE NO // 14500000

- 42 Ah lithium-ion battery **1**
- Charger onboard **1**
- Roller brush **1**

### **TURNADO® 55 complete incl.** ARTICLE NO // 10063784

- 105 Ah Gel battery **1**
- Charger **1**
- Brush 0,8 mm grey **2**
- Pad holder **2**
- Pad red **2**

### **TURNADO® 55 without supplies** ART.-NR. // 10063763

without battery, charger, brushes, pad holder and pads

### **TURNADO® 55 SV complete incl.** ARTICLE NO // 10063785

#### **Public pool setup**

- 105 Ah Gel battery **1**
- Charger **1**
- Brush 0,8 mm grey **2**
- Pad holder **2**
- Pad red **2**

### **TURNADO® 55 SV without supplies** ARTICLE NO // 10063765

#### **Public pool setup**

without battery, charger, brushes, pad holder and pads

### **TURNADO® 55 PRO complete incl.** **PCS** ARTICLE NO // 10063773

- 105 Ah Gel battery **1**
- Charger **1**
- Brush 0,8 mm grey **2**
- Pad holder **2**
- Pad red **2**

### **TURNADO® 55 PRO without supplies** ARTICLE NO // 10063764

without battery, charger, brushes, pad holder and pads

### **TURNADO® 68 Quick-Change** ARTICLE NO // 10062483

- without battery, charger
- Brush 0,8 mm **3**
- Pad holder **3**
- Pad red **3**

### **TURNADO® 68** ARTICLE NO // 10062484

- 120 Ah AGM battery **1**
- Charger **1**
- Bürste 0,8 mm **3**
- Pad holder **3**
- Pad red **3**

### **TURNADO® 68 PRO Quick-Change** ARTICLE NO // 10062485

- 120 Ah AGM battery, charger **each 1 x**
- Brush 0,8 mm, pad holder, pad red **each 3 x**
- Automatic detergent dosing unit **1**
- Automatic tank cleaning **1**
- Automatic water filling **1**
- HEPA-Filter (H13) **1**
- Vacuum motor silencer **1**
- External vacuum set **1**
- External low-pressure spray lance **1**
- Tank cover depot **1**

### **TURNADO® 68 PRO** ARTICLE NO // 10062486

- 120 Ah AGM battery, charger **each 1 x**
- Brush 0,8 mm, pad holder, pad red **each 3 x**
- Automatic detergent dosing unit **1**
- Automatic tank cleaning **1**
- Automatic water filling **1**
- HEPA-Filter (H13) **1**
- Vacuum motor silencer **1**
- External vacuum set **1**
- External low-pressure spray lance **1**
- Tank cover depot **1**

**TURNADO® 68 PRO Optionen** **PCS**  
ARTICLE NO // 10062484

• Automatic detergent dosing unit	10062428	1
• External vacuum set**	10062427	1
• Automatic water filling	10062425	1
• Automatic tank cleaning	10062426	1
• External low-pressure spray lance**	10062429	1
• HEPA Filter (H13)***	10062432	1
• Mop and attachment tag	10062431	1
• Separate rag for tank cover depot	10062435	2
• Silent Pro	10062424	1

additional motor silencer for vacuum motor

\* BlueSave® see page 7;

\*\* When ordering this options include article no 10062431

Mop- and attachment tag in you order!

\*\*\* Only in combination with Quick-Change® Battery-System usable.

**VARIOTECH® 82 complete incl.**  
ARTICLE NO // 10025154

• 180 Ah Gel battery	1
• Charger	1
• Brush 0,8 mm grey	3
• Pad holder	3
• Pad red	3

**VARIOTECH® 82 complete incl.**  
ARTICLE NO // 10025153

• 160 Ah Gel battery	1
• Charger	1
• Brush 0,8 mm grey	3
• Pad holder	3
• Pad red	3

**VARIOTECH® 82 without supplies**  
ARTICLE NO // 10025150

without battery, charger, brushes, pad holder and pads

**VARIOTECH® 82 PRO complete incl.** **PCS**  
ARTICLE NO // 10064107

• 180 Ah Gel battery	1
• Charger	1
• Brush 0,8 mm grey	3
• Pad holder	3
• Pad red	3

**VARIOTECH® 82 PRO complete incl.**  
ARTICLE NO // 10064106

• 160 Ah Gel battery	1
• Charger	1
• Brush 0,8 mm grey	3
• Pad holder	3
• Pad red	3

**VARIOTECH® 82 PRO without supplies**  
ARTICLE NO // 10063799

without battery, charger, brushes, pad holder and pads

**VARIOTECH® 112 PRO complete incl.**  
ARTICLE NO // 10064105

• 220 Ah Gel battery	1
• Charger	1
• Brush 0,8 mm grey	4
• Pad holder	4
• Pad red	4

**VARIOTECH® 112 PRO complete incl.**  
ARTICLE NO // 10064104

• 180 Ah Gel battery	1
• Charger	1
• Brush 0,8 mm grey	4
• Pad holder	4
• Pad red	4

**VARIOTECH® 112 PRO without supplies**  
ARTICLE NO // 10063800

without battery, charger, brushes, pad holder and pads

# PRODUCT VERSIONS

## RIDE - ON MACHINE

### FS 82 complete incl. **PCS** ARTICLE NO // 10064109

• 300 Ah wet cell battery	1
• Charger	1
• Brush 0,8 mm grey	3
• Pad holder	3
• Pad red	3

### FS 82 complete incl. ARTICLE NO // 10064108

• 275 Ah gel battery	1
• Charger	1
• Brush 0,8 mm grey	3
• Pad holder	3
• Pad red	3

**FS 82 without supplies**  
ARTICLE NO // 10063766  
without battery, charger, brushes, pad holder and pads

### FS 112 - 300 Ah, complete incl. ARTICLE NO // 10063809

• Wet cell battery	
• Charger	1
• brushes	4
• Pad holder	4
• Pad red	4

### FS 112 - 275 Ah, complete incl. ARTICLE NO // 10063808

• Gel battery	
• Charger	1
• brushes	4
• Pad holder	4
• Pad red	4

**FS 112 without supplies**  
ARTICLE NO // 10063767  
without battery, charger, brushes, pad holder and pads

### FS 112 XXL power steering without battery **PCS** ARTICLE NO // 10063756

• without battery	
• without Charger	
• brushes	4
• Pad holder	4
• Pad red	4

### FS 112 XXL without supplies ARTICLE NO // 10063768

• 220 Liter Tank  
without battery, charger, brushes, pad holder and pads

### FS 112 XXL - 275 Ah, complete incl. ARTICLE NO // 10063810

• 220 Liter Tank	
• Gel battery	1
• Charger	1
• brushes	4
• Pad holder	4
• Pads	4

### FS 112 XXL - 300 Ah, complete incl. ARTICLE NO // 10063811

• 220 Liter Tank	
• Wet cell battery	1
• Charger	1
• brushes	4
• Pad holder	4
• Pads	4

### FS 112 XXL - power steering, 300 Ah, compl. incl. ARTICLE NO // 10063813

• 220 Liter Tank	
• Wet cell battery	1
• Charger	1
• brushes	4
• Pad holder	4
• Pads	4

### FS 112 XXL - power steering, 275 Ah, complete incl. ARTICLE NO // 10063812

• 220 Liter Tank	
• Gel battery	
• Charger	1
• brushes	4
• Pad holder	4
• Pads	4

### ROUGH DUST ADMISSION OPTIONAL ARTICLE NO // 10023868

Only to use for **FS 112**

**SPECIAL - CLEANING - SYSTEMS** **PCS**

- RF 40** complete - incl. shifting device  
ARTICLE NO // 10023558
- RF 40** complete - without shifting device  
ARTICLE NO // 10023556
- RF 40** light - without shifting device  
ARTICLE NO // 10023561

Shifting device **RF 40**  
ARTICLE NO // 10023710

Shifting device **RF 40** light  
ARTICLE NO // 10023760

RF 40 light varied version:

- **Cleaning of risers of the escalator not possible!**

**VACUUM**

**SD 15** complete incl. vacuum set  
ARTICLE NO // 10064113

**SD 20** complete incl. vacuum set  
ARTICLE NO // 10063788

**SD 35 B** complete incl. vacuum set  
ARTICLE NO // 10063790

**SWD 80** complete incl. vacuum set and 2 filters  
ARTICLE NO // 10063789

**SWO 100** incl. vacuum set  
ARTICLE NO // 10063791

**SWO 100-40** complete incl. vacuum set  
ARTICLE NO // 10063792

**VACUUM - SWEEPER & RIDE - ON VACUUM - SWEEPER** **PCS**

**KS 80** complete incl.  
ARTICLE NO // 10062385

- Side brush 2
- Tanden roller system 1

**KS 90** complete incl.  
ARTICLE NO // 10034035

- 28 Ah battery 1
- Charger onboard
- Side brush 2
- Tanden roller system 1

**KS 95** complete incl.  
ARTICLE NO // 10062386

- 70 Ah battery 1
- Charger 1
- Side brush 2
- Tanden roller system 1

**FKS 100 PRO** complete incl.  
ARTICLE NO // 10039260

- 105 Ah Wet cell battery 2
- Charger 1
- Side brush 2
- Tanden roller system 1

**FKS 110 PRO** complete incl.  
ARTICLE NO // 10034036

- Gel battery 4
- Charger 1
- Side brush 2
- Tanden roller system 1

**FKS 110 PRO** complete incl.  
ARTICLE NO // 10043329

- Gasoline - 4 stroke engine 4,8 kW
- Side brush 2
- Tanden roller system 1

# Maintenance & technical service

## PRECAUTIONARY MAINTENANCE

SO YOUR HEFTER CLEANTECH CLEANING SYSTEM ALWAYS REMAINS IN TOP CONDITION

*“PREVENTING IS BETTER THAN HEALING“ as saying goes:*

*Like all machines, the cleaning machines from HEFTER cleantech need regular maintenance. That is the best way to ensure full performance and reliability. Our preventative maintenance service offers the right solutions, so it stays like that for years.*

Preventive maintenance at a fixed price means fewer machine failures and noticeable lower repair costs for you. Thereby your maintenance efforts and budget is predictable and you have more freedom to concentrate on your strengths, since maintenance of Cleaning machines is hardly your core business, isn't it?

YOUR EQUIPMENT IS ALWAYS IN TOP CONDITION - AT A FIXED PRICE.

### **Our preventive maintenance service offers many benefits:**

- Consistently high cleaning quality
- Extended machine lifetime
- Less downtime and emergency repairs, resulting in less holding time
- Immediate emergency assistance through phone access to technical skills and resources
- Guaranteed response time in case of repair
- Various maintenance contracts in various levels up to an individually agreed maintenance concept
- Reduction of working-, spare part- and travel costs
- Clear maintenance budget



HIGH QUALITY AND BEST FUNCTIONALITY





## SET TO PERFECTION

### MAINTENANCE AGREEMENTS TAILORED TO YOUR NEEDS

*The maintenance agreements of HEFTER cleantech are available in different levels. Fully tailored to your needs. It is your choice. We are happy to consult you.*

#### **PREMIUM-SERVICE**

- Highest priority in access to technical skills and resources
- Reaction by our technical service within 24 hours after service request \*
- 4 inspection visits per year (visual inspection, maintenance work, inspection sticker)
- Working costs included
- 10% discount on spare parts
- 50% travel costs included

#### **STANDARD SERVICE**

- Priority in access to technical skills and resources
- Reaction by our technical service within 48 hours after service request \*
- 3 inspection visits per year (visual inspection, maintenance work, inspection sticker)
- 10 % discount on the working costs
- 10 % discount on spare parts
- 20 % discount on the travel costs

#### **BASIC SERVICE**

- Access to technical skills and resources
- Reaction by our technical service within 72 hours of service request \*
- 2 inspection visits per year (visual inspection, maintenance work, inspection sticker)
- Working costs and material costs according to valid price list and HEFTER cleantech AGBs
- 20% discount on the travel costs

#### **SERVICE DESIGN**

If none of the service variants listed above meets your requirements, we can work out an individual agreement with you. HEFTER cleantech service design maintenance agreements with special services for highest demands.

\* Valid on working days except Saturday, Sunday and all public holidays







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HIGH QUALITY AND BEST FUNCTIONALITY

[www.hefter-cleantech.com](http://www.hefter-cleantech.com)