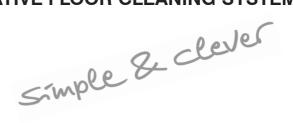




INNOVATIVE FLOOR CLEANING SYSTEMS



Catalogue 2012/2013





TABLE OF CONTENS

1. HEFTER CLEANTECH TECHNOLOGY	page
Unique technology	2 - 3
2. SCRUBBER - DRIER	page
TURNADO 38	4
TURNADO 55	5
TURNADO 55 PRO	6
VARIOTECH 82	7
VARIOTECH 82 PRO	8
VARIOTECH 112 PRO	9
TURNADO 82	10
3. FLOOR - TREATMENT - SYSTEM	page
CONVERT 82	11
4. RIDO-ON MACHINE	page
FS 82	12
FS 112	13
5. VACUUM - SWEEPER	page
KS 80	14
KS 90	15
KS 95	16
KS 100	17
FKS 100 PRO	18
FKS 110 PRO	19
6. ESCALATOR AND MOVING PAVEMENT CLEANER	page
RF 40 / RF 40 light	20
7. SPECIAL CLEANING SYSTEMS	page
VARIOCLEAN & VARIOCLEAN PRO	21
8. EQIUPMENT	page
Pads / pad holder	22
Brushes	23
Overall Accessories	24
Equipment TURNADO 38	25
Equipment TURNADO 55 / 55 PRO, VARIOTECH 82 / 82 PRO	26
Equipment VARIOTECH 112 PRO	27
Equipment CONVERT 82 / TURNADO 82	28
Equipment FS 82 / FS 112	29
Equipment FS 112	30
Equipment VACUUM SWEEPER	31
Equipment RF 40	32
Equipment VARIOCLEAN	33
9. ORDERFORM- / T´S & C´S	
Orderform	34
Notes	35 - 36
General Terms and Conditions	38

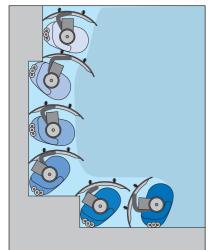
For technical details and further information please see the technical data sheet. HEFTER cleantech GmbH reserves the right to make technical changes!

Page 1 Version 1.6



HEFTER CLEANTECH UNIQUE TECHNOLOGY





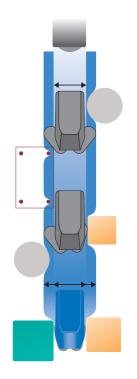
Depending on system implementation, the scrubber drier head, including suction and squeegees, can be rotated between 200° left and right or 360° endless during full operation.

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® 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.



HEFTER CLEANTECH UNIQUE TECHNOLOGY



CONVERT® - the only convertable 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, their is no need to have multiple seperate systems available.

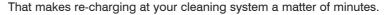
This increases efficiency, allows not only to reduce system expenditure but also decreases labor cost.



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





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.



SCRUBBER - DRIER TURNADO 38



Product feature:

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

The TURNADO® 38 has the ideal dimensions for small sized rooms with relative limited space. With a cleaning capacity of 1200 squarre meters and hour, the TURNADO® 38 outperformes a mop at any time.

A mop is dipped into the same - already dirty - water every time. In doing that, you dispense 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 immediatelly. You can use the machine even while the business is running.

Product advantages.

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

Ideal for to clean:

Smaller retail sales rooms	Kitchen
■ Small and misaligned storages spaces	Garages
■ Hotel and Office antrance areas	Verkaufsräume
■ Locker room and restrooms	and much more

Technical data	TURNADO® 38
Dimensions / volume / weight	

Dimensions / volume / weight	
Working width	380 mm
Width of curve suction unit	460 mm
Total length	850 mm
Total width	500 mm
Total height	1030 mm
Underclearence	630 mm
Tankvolume freshwater	15 I
Tankvolumen dirtwater	23
Total operation weight (incl 25 Ah Gel-battery and water)	77 kg
Working performance	
Theoretical cleaning rate	1200 m²/h
Brush preassure	22-28,5 kg
Noise level	71 dB
Motor performanc	
Brush motor	250 W
Vacuum motor	300 W
Battery	
Voltage	24 V
Capacity (maintenance free gel-batteries)	25 Ah
Working hour per battery (dependent on floor and dirt)	max. 1 h
(HEFTER reserves the right to make technical changes)	version 01.2012

Product versions:

TURNADO® 38 complete incl.	ARTICLE NO:	10057862
25 Ah Gel-battery (max 1. h)	1	
Charger onboard	1	
Brush PP 0,8 mm grey	1	



SCRUBBER - DRIER TURNADO 55





version 01.2012

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.

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 bei 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

Product feature:

- Plastic tank
- Control tower ergonomically designed, adjustable height and angle
- Scrubbing and suction head rotational 400°

Technical data	TURNADO® 55
Dimensions / volume / weight	TORNADO 55
Working width	550 mm
Rotational scrubbing and suction head TURNADO®	up to 400°
Width of passage	670 mm
Housing width	408 mm
Housing length	710 mm
Total length	920 mm
Total height	1150 mm
Tank volume (dirt- and fresh water tank)	je 45 l
Max. weight (with 100 Ah gel batteries)	223 kg
Max. surface pressure	2,8 N/mm²
Dead weight (with 100 Ah gel batteries)	178 kg
Working performance	
Theoretical cleaning rate (at 4,5 km/h)	2475 m²/h
Max. speed	4,5 km/h
Max. water supply	3,5 l/min
Sound insulation SILENT function	yes
Motor performance	
Brush motor	2 x 190 W
Vacuum motor	350 W
Drive motor	110 W
Battery	
Voltage	24 V
Capacity (maintenance free gel batteries)	100 Ah
Working time per battery (depending on floor and dirt)	up to 2 ¹ / ₂ h

Product versions:

TUDNIADOREE		1000000
Pad red	2	
Pad holder	2	
Brush 0,8 mm grey	2	
Charger	1	
100 Ah Gel-battery (up to 2,5 h working time)	1	
TURNADO® 55 complete incl.	ARTICLE NO:	10052841

TURNADO® 55 complete incl.	ARTICLE NO:	10062388
Puplic pool version		
100 Ah Gel-battery (up to 2,5 h working time)	1	
Charger	1	
Brush 0,8 mm grey	2	
Pad holder	2	
Pad red	2	
Conversion kit public pool	1	
Soft wheels	2	

TURNADO® 55 without supplies ARTICLE NO: 10050693 without battery, charger, brushes, pad holder and pads

(HEFTER reserves the right to make technical changes)



SCRUBBER - DRIER TURNADO 55 PRO



Product feature:

- Aluminium tank
- Control tower ergonomically designed, adjustable height and angle
- Scrubber and suction head endless rotational

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**® **55 PRO** gives a uniform result over the entire cleaning area. Even backwards, the scrubbing and suction head always turns in work-direction itself.

Convincing advantages of the TURNADO 55 are its benefits:

- 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 bei 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

TURNADO® 55 PRO complete incl. ARTICLE NO:

without battery, charger, brushes, pad holder und pads

Technical data TURNADO® 55 PRO

lechnical data	TURNADO® 55 PRO
Dimensions / volume / weight	
Working width	550 mm
Rotational scrubbing and suction head TURNADO	[®] endless
Width of passage	670 mm
Housing width	408 mm
Housing length	710 mm
Total length	920 mm
Total height	1150 mm
Tank volume (dirt- and fresh water tank)	each 50 I
Max. weight (with 100 Ah gel batteries)	218 kg
Max. surface pressure	2,8 N/mm ²
Dead weight (with 100 Ah gel batteries)	168 kg
Working performance	
Theoretical cleaning rate (at 4,5 km/h)	2475 m²/h
Max. speed	4,5 km/h
Max. water supply	3,5 l/min
Sound insulation SILENT function	yes
Motor performance	
Brush motor	2 x 190 W
Vacuum motor	350 W
Drive motor	110 W
Battery	
Voltage	24 V
Capacity (maintenance free gel batteries)	100 Ah
Working time per battery (depending on floor and	dirt) up to. $2^{1/2}h$
(HEFTER reserves the right to make technical changes)	version 01.2012

Product versions:

TURNADO® 55 PRO without supplies	s ARTICLE NO:	10050695
Soft wheels	2	
Conversion kit public pool	1	
Pad red	2	
Pad holder	2	
Brush 0,8 mm grey	2	
Charger	1	
100 Ah Gel-battery (up to 2,5 h working time)	1	
Puplic pool version		
TURNADO® 55 PRO complete inc	I. ARTICLE NO:	10062389
Pad red	2	
Pad holder	2	
Brush 0,8 mm grey	2	
Charger	1	
100 Ah Gel-Battery (up to 2,5 h working time)	1	

10052842



SCRUBBER - DRIER VARIOTECH 82





up to 2 – 4 h

version 01.2012

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

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

Product feature:

- Mechanical lifting and lowering of the scrubber head
- 82 cm working width -> manually reducible to 61 cm
- Same control unit as TURNADO[®] 55 PRO
- No Quick-Change Battery-System

Dimensions / volume / weight

Technical data	VARIOTECH® 82
----------------	---------------

Working width VARIOTECH®	610 – 820 mm
Housing width	535 mm
Total length	1030 mm
Total height	1130 mm
Tank volume (dirt- and fresh water tank)	each 100 l
Max. weight (with gel batteries)	385 kg mit 180 Ah
Max. surface pressure	1,7 N/mm ²
Dead weight incl. gel battery	285 kg with 180 Ah
Working performance	
Theoretical cleaning rate (at 4,5 km/h)	4100 m²/h
Max. speed	5 km/h
Max. water supply	8,9 I/min
Sound insulation SILENT function	yes
Control of cleanig wing	mechanical
Stroke mechanism cleaning head	mechanical
Motor performance	
Brush motor	500 W
Vacuum motor	530 W
Drive motor	400 W
Brushes / Pads	
Pressure brush / pad	1,8/0,4 N/cm ²
Diameter	285 mm
Battery	
Voltage	24 V
Capacity (maintenance free gel batteries)	160/180 Ah

Product versions:

VARIOTECH® 82 complete incl.	ARTICLE NO:	10025154
180 Ah Gel-Battery (up to 3,5 h working time)	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-Batterien (up to 3 h working time)	1	
Charger	1	
Brush 0,8 mm grey	3	
Pad holder	3	
Pad red	3	

VARIOTECH® 82 complete incl. ARTICLE NO: 10025150 without battery, charger, brushes, pad holder and pads

Working time (dependent on floor and batteries)

(HEFTER reserves the right to make technical changes)



SCRUBBER - DRIER 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 61 cm. It is pushed back to its original cleaning width by a gas spring.

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

Product feature:

- Fully automatical lifting and lowering of the scrubber head
- 82 cm working width -> reducible to 61 cm by pressing a button
- Electronical fresh water reserve display
- ■Quick-Change-Battery-System

(HEFTER reserves the right to make technical changes)

Signal-horn

7
CK _V (
- V I
IGE
"GE

version 01.2012

Technical data VARIOTECH®82 PRO

i o o i i i o o i i o o o o o o o o o o	.,
Dimensions / volume / weight	
Working width VARIOTECH®	610 – 820 mm
Housing width	535 mm
Total length	1030 mm
Total height	1130 mm
Tankvolume (dirt- and fresh water tank)	each 100 l
Max. weight (with gel battery)	420 kg with 180 Ah
Max. surface pressure	1,7 N/mm²
Dead weight incl. gel battery	320 kg with 180 Ah
Working performance	
Theoretical cleaning rate (at 4,5 km/h)	4100 m²/h
Max. speed	5 km/h
Max. water supply	8,9 I/min
Speed adjusted water supply	yes
Sound insulation SILENT function	yes
Control of cleanig wing	electrical
Stroke mechanism cleaning head	electrical
Motor performance	
Brush motor	500 W
Varuum motor	530 W
Drive motor	400 W
Brushes / Pads	
Pressure brush / pad	1,8/,04 N/cm ²
Diameter	285 mm
Battery	
Voltage	24 V
Capacity (maintenance free gel batteries)	160/180 Ah
Quick-Change® Batterie-Schnellwechselsystem	ja
Working time (depending on floor and battery)	up to 2 – 4 h

Product versions:

VARIOTECH® 82 PRO complete. incl	. ARTICLE NO:	10023008
180 Ah Gel-Battery (up to 3,5 h working time)	1	
Charger	1	
Brush 0,8 mm grey	3	
Pad holder	3	
Pad red	3	

0023007	1	I. ARTICLE NO	ECH® 82PRO complete. incl.	V
		1	I-Battery (up to 3 h working time)	16
		1		Cł
		3	mm grey	Br
		3		Pa
		3		Pa
		3		Pa

VARIOTECH® 82 PRO	ARTICLE NO:	10023006
without battery charger brushes pa	nd holder and pads	



SCRUBBER - DRIER VARIOTECH 112 PRO



Product feature:

Technical data

- 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

rated 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.

This machine with VARIOTECH® technology, automatically ope-

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



QUICK.

rechnical data	VARIOTECH 112 P	HU
Dimensions / volume / weight		
Working width VARIOTECH®	710 - 1120	mm
Housing width	640	mm
Total length	1320	mm
Total height	1095	mm
Tankvolume (dirt- and fresh water tank)	each '	130 I
Max. weight (with gel battery)	542 kg with 22	0 Ah
Max. surface pressure	1,8 N/	mm ²
Dead weight (incl. gel battery)	341 kg with 18	0 Ah
Working performance		
Theoretical cleaning rate	5500	m²/h
Max. speed	5 k	km/h
Max. water supply	8,9 I	/min
Sound insulation SILENT function		yes
Control of cleanig wing	elect	trical
Stroke mechanism cleaning head	elect	trical
Comfort operating tower		yes
Motor performance		
Brush motor	2 x 50	00 W
Vacuum motor	53	30 W
Drive motor	40	00 W
Brush / Pads		
Pressure	8	00 N
Diameter	285	mm
Battery		
Voltage		24 V
Capacity (maintenance free gel batteries)	180/22	0 Ah
Working time (depending on floor and battery)	up to 2 - 4 h / set of batte	eries
(HEFTER reserves the right to make technical changes)	version 0°	1.2012

Product versions:

VARIOTECH® 112PRO comp	lete incl.	ARTICLE NO: 10020723
220 Ah gel-batteries (about 3 h worki	ing time) 1	
Charger	1	
Brush 0,8 mm grey	4	
Pad holder	4	
Pad red	4	
VARIOTECH® 112PRO comp	olete incl.	ARTICLE NO: 10020722

VARIOTECH® 112PRO con	mplete incl.	ARTICLE NO: 10020722
180 Ah gel-batteries (about 1,75 h working time) 1		
Charger	1	
Brush 0,8 mm grey	4	
Pad holder	4	
Pad red	4	

VARIOTECH® 112PRO without supplies ARTICLE NO: 10020721 without battery, charger, brushes, pad holder and pads



SCRUBBER - DRIER TURNADO 82



Product feature:

- plastic tank
- tank volume (fresh/ dirt water) each 100l
- scrubber head rotational up to 400°

Why walking behind, when you are able to drive on the TURNADO® 82? Step-on scrubber drier, 82 cm working width and rotational 400° scrubber head for an effective cleaning. Increase your cleaning productivity with the TURNADO® 82! Flexibility and agility of a compact walk behind system and great performance of a ride on system are perfectly combined in the step-up system of the TURNADO® 82!

Convincing advantages:

- great flexibility and agility
- simple cleaning of corners, niches and also while driving backwards
- high suction performance
- patented TURNADO® system, scrubber head rotational up to 400°
- Quick-Change-Battery-System
- Extremely compact dimensions, therefore very agile



- Less change of water through a big tank volume
- 10 years guarantee on the stainless steel chassis

Technical data	TURNADO® 82
----------------	-------------

	lecililical uata	IONNADO	02
	Dimensions / volume / weight		
٧	Vorking width TURNADO®	820	mm
H	lousing width	600	mm
Т	otal length	1500	mm
Т	otal height	1300	mm
Т	ank volume (dirt- and fresh water tank)	each ⁻	100 I
N	Max. weight (incl battery, driver, detergent)	55	0 kg
Ν	Max. surface pressure	0,7 N/	mm²
	Dead weight (incl. batterie, driver)	45	0 kg
V	Vorking performance		
Т	heoretical cleaning rate (at 5 km/h)	4.100 r	m2/h
Ν	Max. speed (transport speed)	6 H	km/h
C	Cleaning speed (adjustable)	1,5 - 5 k	km/h
Ν	Лах. water supply	8,9 1	/min
S	Speed adjusted water supply		yes
١	Noise level cleaning / SILENT function	73/6	5 db
S	Stroke mechanism cleaning head	elect	rical
F	Fast start / stop operator control with just one button		yes
N	Motor performance		
Е	Brush motor	3 x 19	90 W
٧	/acuum motor	53	30 W
	Orive motor	60	00 W
Е	Brushes / Pads		
F	Pressure brush / pad	1,4/0,4 N	/cm²
	Diameter Brushes / Pads	285 mm	/11"
Е	Battery		
٧	/oltage		24 V
C	Capacity (maintenance free gel battery)	160 /18	0 Ah

Working time (depending on floor and battery) up to 2-4h/set of batteries

yes

version 01.2012

Quick - Change battery system

(HEFTER reserves the right to make technical changes)

Product versions:

TURNADO® 82 complete incl.	ARTICLE NO:	10025208
180 Ah gel-Batteries (about. 2,5 h working time)	1	
Charger	1	
Brush 0,8 mm grey	3	
Pad holder	3	
Pad red	3	

TURNADO® 82 without supplies ARTICLE NO: 10025205 without battery, charger, brushes, pad holder and pads



FLOOR TREATMENT - SYSTEM CONVERT 82

Technical data



The first and only convertible, multi-purpose cleaning system for different tasks. **CONVERT® 82** features a stand-on application which provides maximum flexibility to the user.

Multi-purpose using saves costs:

- Scrubbing
- Burnishing
- Grinding
- Crystallising

Convincing advantages:

- The working units are very easy to change
- maximum flexibility and agility
- simple cleaning right to the walls, into corners and niches
- simple backwards cleaning
- Patented TURNADO® system, working units can be rotated up to 400°
- Quick-change battery system
- extremely compact dimensions, thereby very agile
- Less change of water through big tank volume
- 10 years guarantee on stainless steel chassis



up to zu 820 mm
600 mm
1500 mm
1300 mm
each 100 l
472 kg
0,7 N/mm ²
372 kg

CONVERT®82

600 W

1,4/0,4 N/cm²

Working performance	
Theoretical cleaning rate (at 5 km/h)	4.100 m ² /h
Max. speed (transport speed)	5,8 km/h
Cleaning speed (adjustable)	1,5 – 5 km/h
Max water supply	8 Q I/min

Max. water supply 8,9 l/min
Speed adjusted water supply yes
Noise level cleaning / SILENT function 73/65 db
Stroke mechanism cleaning head electrical
Fast start / stop operator control with just one button yes

	,
Motor performance	
Scrubbing unit	3 x 190 W
Rotation speed brushes/pads	270 U/min.
High speed burnishing unit	1100 W
Rotation speed burnisher highspeed	1700 U/min.
Vacuum motor	450 W

Brushes / Pads Pressure scrubbing unit brush / pad

Pressure burnishing unit 100 N Diameter brushes / pads 285 mm / 11"

Battery
Voltage

Voltage 24 V
Capacity (maintenance free gel battery) 180 Ah
Working time (depending on floor and battery) up to 2 - 4 h / set of batteries
Quick-Change Battery system yes
(HEFTER reserves the right to make technical changes) version 01.2012

Product versions::

CONVERT® 82 complete in	cl.	ARTICLE NO:	10025207
180 Ah Gel-vatteries (about 1,75 h	working time) 1		
Charger	1		
Brush 0,8 mm grey	3		
Pad holder	3		
Pad red	3		

CONVERT® 82 without supplies ARTICLE NO: 10025204 without battery, charger, brushes, pad holder and pads

CONVERT® 82 burnishing head High-speed burnishing head working head for CONVERT® 82



Drive motor



RIDE - ON MACHINE



Crucial facts of floor cleaning:

- reducing cleaning time
- reducing labour costs

Dimensions / volume / weight

Technical data

Working width

Diameter Battery

Voltage

Capacity (maintenance free gel battery)

Working time (depending on floor and battery)

Quick-Change battery system

(HEFTER reserves the right to make technical changes)

Capacity (wet cell - battery)

Minimizing the numbers of machines

Rotational scrubbing and suction head TURNADO up to 400°
Housing width 760 mm

Total length 1730 mm

Total height 1370 mm

Width of passage 760 mm

Tank volume (dirt- and fresh water tank) each 150 I

Max. weight (with 275 Ah-Battery, driver, water) 830 kg

Max. surface pressure 0,6 N/mm²

Dead weight (with 275 Ah-Battery) 665 kg

Working performance

Max. surface pressure	0,6 N/mm ²
Dead weight (with 275 Ah-Battery)	665 kg
Working performance	
Theoretical cleaning rate	4510 m²/h
Max. speed	5,5 km/h
Max. water supply	8,9 l/min
Speed adjusted water supply	yes
Noise level cleaning / SILENT function	72/66 db
Motor performance	
Brush motor	500 W
Vacuum motor	1 x 530 W
Drive motor	400 W
Brushes / Pads	
Pressure brush / pad	1,8/0,4 N/cm ²

The HEFTER technologies **VARIOTECH**® 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
- Extremely compact dimensions
- Ergonomically designed controls
- Fast start/ stop operator control with just one button
- 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
- 10 years guarantee on stainless steel chassis



Product versions:

FS 82

285 mm

220/275 Ah

version 01.2012

2-4 h / each set of batteries

300 Ah

yes

24 V

690 - 820 mm

FS 82 complete incl.	ARTICLE NO:	10023811
300 Ah wet cell battery	1	
(about 3,5 h working time)		
Charger	1	
Brush 0,8 mm grey	3	
Pad holder	3	
Pad red	3	

FS 82 complete incl.	ARTICLE NO:	10023810
275 Ah gel-batteries (about 3 h working time)	1	
Charger	1	
Brush 0,8 mm grey	3	
Pad holder	3	
Pad red	3	

FS 82 without supplies	ARTICLE NO:	10023807
without battery charger brushes of	ad holder and nads	



RIDE - ON MACHINE

FS 112



Crucial facts of floor cleaning:

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

Technical data FS 112 Dimensions / volume / weight 710 - 1120 mm Working width Rotational scrubbing and suction head TURNADO up to 400° Housing width 760 mm Total length 1730 mm Total height 1370 mm Width of passage 830 mm Tank volume (dirt- and fresh water tank) each 150 l Max. weight (with 275 Ah-Battery, driver, water) 830 kg Max. surface pressure 0.65 N/mm² Dead weight (with 275 Ah-Battery) 680 kg **Working performance** Theoretical cleaning rate 8960 m²/h Max. speed 8 km/h Max. water supply 8,9 l/min Speed adjusted water supply yes Noise level cleaning / SILENT function 72/66 db Fast start / stop operator control with just one button yes **Motor performance** Brush motor 2 x 500 W Vacuum motor 2 x 530 W Drive motor 900 W **Brushes / Pads** Pressure brush / pad 2,3/0,5 N/cm² 285 mm Diameter Batterv 24 V Voltage 220/275 Ah Capacity (maintenance free gel battery) Capacity (wet cell - battery) 300 Ah

2-4 h / each set of batteries

yes

version 01.2012

The HEFTER technologies **VARIOTECH**® 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
- Extremely compact dimensions
- Ergonomically designed controls
- Fast start/ stop operator control with just one button
- Around-the-clock use is no problem thanks to Quick-Change-battery-system



10023814

- Minimizing the numbers of machines
- Long working time through big tank volume
- 10 years guarantee on stainless steel chassis
- Additional brush pressure level

Product versions FS 112 complete incl.

300 Ah wet cell battery

(about 3 h working time)

Charger	1	
Brush 0,8 mm grey	4	
Pad holder	4	
Pad red	4	
FS 112 complete incl.	ARTICLE NO:	10023813
275 Ah gel-batteries (about 2,5 h working time)	1	
Charger	1	
Brush 0,8 mm grey	4	
Pad holder	4	
Pad red	4	
FS 112 without supplies	ARTICLE NO:	10023808
without battery, charger, brushes, pad ho	lder and pads	
FS 112 SERVO without supplies	ARTICLE NO:	10040356
without battery, charger, brushes, pad ho	lder and pads	
Rough dust admission Option For FS 112	ARTICLE NO:	10023868

ARTICLE NO:

Working time (depending on floor and battery)
QUICK-Change battery system

(HEFTER reserves the right to make technical changes)



Technical data



The KS 80 is the enonomic sweeper with the Tandem-Roller-System. With 2 counterrotable 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.

Convincing advantages:

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

Power supply	manual
Sweeping principle	TRS
Sweeping width main roller	470 mm
Sweeping width (with 2 side brushes)	800 mm
Power transmission	round belt
Capacity of dirt collector	40 I
Recommended net cleaning surface	up to 1000 m ²
Theoretical sweeping performance	2800 m ² /h
Practical sweeping performance	1680 m²/h
Total length	800 mm
Total width	660 mm
Total height	330 mm
(HEFTER reserves the right to make technical changes)	version 01.2012

Product versions:

KS 80

KS 80 complete incl.	ARTICLE NO:	10062385
Side brush	2	
Tandem Roller System	1	





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.

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 cleanig

Technical data	KS 90
Total sweeping width (2 side brushes)	900 mm
Sweeping roller width	600 mm
Sweeping principle	TRS
Power transmission	Chain
Powered sweeping roller	yes
Electrical dust removal	yes
Calculated sweeping performance	3150 m ² /h
Capacity of dirt collector	50 I
Filter surface	1,1 m ²
Cleaning filter	mechanical
Battery (Ah)	12 V 28 Ah
Charger (onboard)	4 A
Operating time	1,5 h
Total length	1.091 mm
Total width	760 mm
Total height	416 mm

(HEFTER reserves the right to make technical changes)

Product versions:

version 01.2012

KS 90 incl. battery	ARTICLE NO:	10034035
28 Ah Batterie (up to 1,5 h working time)	1	
Charger	onboard	
Side brush	2	
Tandem Roller System	1	





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 m² 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.

Convincing advantages:

- Applicabel for sand and dine 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 (with 2 side brushes)	900 mm
Sweeping principle	TRS
Sweeping width main roller	500 mm
Power transmission	toothed belt
Automatic main broom drive	Yes
Suction system	Yes
Filter cleaning	mechanical
Filter surface	2.5 m ²
Airflow volume	250 m ³ /h
Capacity of dirt collector	60 I
Recommended net cleaning surface	Up to 3000 m ²
Theoretical sweeping performance	3600 m ² /h
Practical sweeping performance	2340 m²/
Speed	3,7 km/h
Gradability	20 %
Total length	1150 mm
Total chassis width	790 mm
Total height	600 mm
Weight incl. battery	105 kg
Operating time (depends on floor, dirt)	2 h
Battery	12 V, 80 Ah
(HEFTER reserves the right to make technical changes)	version 01.2012

Product versions:

KS 95 complete incl.	ARTICLE NO:	10062386
80 Ah Battery (up to. 2 h working time)	1	
Charger	1	
Side brush	2	
Tandem-Roller-Sytem	1	





KS 100 is the powerful sweeper for inside and outside. Unmatched performance for all areas makes the **KS 100** an indispensable work device in all areas, where a maximum of performance is needed: the industries, the service sector, municipal applications and more.

The particularly powerful dust suction combined with the ingenious Tandem-Roller-System makes the **KS 100** ideal for removal of fine and coarse refuse for pros.

Convincing advantages:

- Tandem-Roller-System provides unmachted sweeping performance
- Very agile and silent
- Surdy frame combined with impact-proof, rotational moulded polyethylene trim panel
- Especially large dust container and filter
- Quick-to-change mechanism for rollers and lateral brushes
- Extremely easy technical access
- Differential drive of both rear wheels
- Powerful motor

Technical data	KS 100
Sweeping width (with 2 side brushes)	1000 mm
Sweeping principle	TRS
Sweeping width main roller	600 mm
Power transmission	chain dirve
Automatic main broom drive	Yes
Suction system	Yes
Filter cleaning	mechanical
Filter surface	3 m ²
Airflow volume	600 m³/h
Capacity of dirt collector	70 I
Recommended net cleaning surface	Up to 5000 m ²
Theoretical sweeping performance	400 m²/h
Practical sweeping performance	2600 m ² /
Speed	4 km/h
Gradability	20 %
Total length	1190 mm
Total chassis width	790 mm
Total height	820 mm
Weight incl. battery	125 kg
Operating time (depends on floor, dirt)	2 h
Battery	2 x 12 V à 80 Ah
(HEFTER reserves the right to make technical changes)	version 01.2012

Product versions:

....

KS 100 complete incl.	ARTICLE NO:	10062387
80 Ah Battery (up to. 2 h working time)	2	
Charger	1	
Side brush	2	
Tandem-Roller-Sytem	1	



RIDO - ON VACUUM SWEEPER 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.

Convincing advantages:

- Frame: solid, powder-coated welded laser construction, combined with extremely impact-resistant, rotation sintered polyethylene covering
- Exceptionally 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

Techn	iical data	FKS 100 PRO
Sweepir	ng width (2 side brooms)	1.000 mm
Sweepir	ng roller width	600 mm
Sweepir	ng principle	TRS
Operatii	ng time	approx. 2,5 h
Capacit	y of dirt collector	70 I
Filter su	rface	3 m²
Filter cle	eaning	electrical
Gradabi	lity	20 %
Forward	speed maximum	6 km/h
Theoret	ical sweeping performance	6.000 m²/h
Practica	Il average sweeping performance	4.200 m²/h
Recomr	nended net cleaning area	approx. 8.000 m ²
Total ler	ngth	1.190 mm
Total wi	dth	790 mm
Total he	ight	1.089 mm
Weight	(without Battery)	130 kg
Drive		Battery
Low ma	intenance battery (wet cell)	2 x 12 V a 105 Ah
(HEFTER r	eserves the right to make technical changes)	version 01.2012

Product versions:

KS 100 PRO complete incl.	ARTICLE NO:	10039260
105 Ah wet cell- battery	2	
Charger	1	
Side brush	2	
Tandem Roller System	1	



RIDE - ON VACUUM SWEEPER FKS 110 PRO



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

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.

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 m³/h air volume in 4 m² dust filter
- Very large, robust and yet light dust collector

Technical data	FKS 110 PRO
Sweeping width (2 side brooms)	1.110 mm
Sweeping roller width	700 mm
Sweeping principle	TRS
Operating time	approx. 4 h
Capacity of dirt collector	90 I
Filter area	4 m ²
Filter cleaning	electrical
Gradability	20 %
Forward speed maximum	6 km/h
Theoretical sweeping performance	6.600 m ² /h
Praktical average sweeping performance	4.620 m ² /h
Recommended net cleaning area	up to approx. 12.000 m ²
Total length	1.450 mm
Total width	900 mm
Total height	1.165 mm
Weight (without Battery)	209 kg
Drive	Battery
Low maintenance battery	4 x 6 V a 180 Ah
(HEFTER reserves the right to make technical changes)	version 01.2012

Product versions:

FKS 110 PRO complete incl.	ARTICLE NO:	10034036
Gel-Battery	4	
Charger	1	
Side brush	2	
Tandem Roller System	1	

FKS 110 PRO	ARTIKELNUMMER:	10043329
Gasoline engine	4,8 kW	
Side brush	2	
Tandem Roller System	1	



ESCALATOR AND MOVING PAVEMENT CLEANER RF 40 / RF 40 light



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.

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 light without shifting device	ARTICLE NO:	10023561
Shifting device RF 40 light	ARTICLE NO:	10023760

RF 40 light varied version:

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

Product versions:

RF 40 complete	ARTICLE NO:	10023558
incl. shifting device	1	
RF 40 without shifting device	ARTICLE NO:	10023556
Shifting device RF 40	ARTICLE NO:	10023710

Technical data	RF40 light	RF40
Total weight (with empty tank)	49 kg	59,5 kg
Transport dimensions max.	1400 x 720 x 1100 mm	1400 x 720 x 1100 mm
Working width	2x170 mm (2 roller brushes)	2 x 170 mm (2 roller burshes)
Total width of cleaning unit	520 mm	520 mm
Detergent/dirty water tank	20 I-refillable/60 I	20 I-refillable/ 60 I
Detergent applied to stair treads	200/300/400 ml per min	200/300/400 ml per min
Detergent applied to stair faces	not possible	50/100/150 ml per min
Power supply	230 Volt/16 A (mains power)	230 Volt/16 A (mains power)
Total power consumption	approx. 3 kW	approx. 3 kW
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 01.2012

Page 20



CLEANING SYSTEM VARIOCLEAN



With its many application possibilities the **VARIOCLEAN** Cleaning System provides the ideal solution for non-contacting cleaning of all wet-room areas.

Five cleaning systems in one:

- Low-Pressure Spray Cleaner
- Low-Pressure Foam Cleaner
- Wet Vacuum
- Machine for Floor Scrubbing
- Spray Extraction Machine

Convincing advantages:

- Contact-free working
- Without buckets, sponges, scrubber brush, strip washer and squeegees
- Reduces working time
- Reduces usage of detergent and chemicals
- Low-Pressure cleaning technology enables dirt splashing in cleaning areas
- Prevents cross-contamination
- Reaches even small edges and niches
- Agile and compact design, applications even in smallest restrooms with long hoses

Technical data	VARIOCLEAN

lecillical uata	VARIOCELAN
Electrical connection	
Alterning current	230 V / 50 Hz
Fusing of power feed	10 A
Total wattage	1600 W
Main power cable (H07 RN-F 3G1,0)	15 m
Pump motor	
Performance	150 W
Spraying pressure	2 - 12 bar
Water consumption with spray lance	2,0 I / min.
Water consumption with injektor and fo	pam lance 1,7 l / min.
Vacuum motor	
Performance	1.250 W
Air circulation	3.200 I / sec.
Vacuum	2.500 mm / Ws
Noise level	72,8 dB
Tank capacity	
Fresh water / max. temperature	35 I / 40°C
Dirt water tank	40 I
Suction hose	
Length	4 m
Diameter	38 mm
Pressure hose	
Length	5 m
Diameter	12 mm
Weight / dimensions	
Dead weight	39 kg
Length / width / height	820 / 410 / 840 mm

Product versions:

version 01.2012

Fiduct versions.		
VARIOCLEAN PRO complete incl Hard floor adapter Carpet adapter Polster adapter	ARTICLE NO: 1 1 1	10040355
VARIOCLEAN basic machine Without extra supplies	ARTICLE NO:	10040354
Carpet spray-extraction set	ARTICLE NO:	10043137
Upholstery adaptor 8 cm	ARTICLE NO:	10034014
Hard-floor cleaning set	ARTICLE NO:	10043138

(HEFTER reserves the right to make technical changes)



PADS / PAD HOLDER IDENTICAL FOR ALL SYSTEMS'

Article no:	Description
10017955	Superpad black
	ϕ 280 mm
10017956	Superpad brown
	ϕ 280 mm
10017957	Superpad beige
	ϕ 280 mm
10017958	Superpad red
	ϕ 280 mm - standard
10017959	Superpad green
	ϕ 280 mm
10017960	Superpad white
	ϕ 280 mm
10023272	Microfibre-pad
	ϕ 280 mm
10057909	Melamin pad, ϕ 280 mm
10000009	Longlife power pad, ϕ 280 mm
10017954	Pad holer for superpad
10023273	Pad holer for microfibre-pad
10061505	Pad holer for Superpads with long side bristles
	for pre-sweeper





Pictures similar! Page 22



BRUSHES IDENTICAL FOR ALL SYSTEMS'

Article no:	Description	
10017946	Nylon brush yellow	
	fibre thickness 0,6 mm	
10017947	Nylon brush grey	
	fibre thickness 0,8 mm - standard	
10017948	Nylon brush blue	and the state of t
	fibre thickness 1,0 mm	
10017949	Nylon brush black	
	fibre thickness 1,2 mm	
10017962	Grit brush grey	and the same
	grain 80	
10017963	Grit brush green	
	grain 120	
10017964	Grit brush blue	
	grain 180	
10017965	Grit brush red-brown	
	grain 240	
10017966	Grit brush brown	
	grain 46	
10024261	Brush for rough dust admission	
	with extra long side bristles	
* Except for TURNADO 38		

Page 23 Pictures similar!



OVERALL ACCESSORIES (IDENTICAL FOR THE FOLLOWING SYSTEMS)

TURNADO 55 / 55 PRO VARIOTECH 82 / 82 PRO VARIOTECH 112 PRO FS 82 / 112

F3 62 / 112			
Article no:	Description		
10020819	Squeegee blade (front) short (2)		
	440 mm x 60 mm x 3,0 mm		
10020939	Squeegee blade (front) long	(1)	
	666 mm x 60 mm x 3,0 mm		
10021074	Squeegee blade (back) 4mm; short	(2)	
	448 mm x 60 mm x 4,0 mm		
10021077	Squeegee blade (back) 4mm; long	(1)	
	740 mm x 60 mm x 4,0 mm		
10020809	Squeegee blade (back) 5mm; short	(2)	
	448 mm x 60 mm x 5,0 mm		
10020940	Squeegee blade (back) 5mm; long	(1)	
	740 mm x 60 mm x 5,0 mm		
10021075	Squeegee blade (back) 6mm; short	(2)	
	448 mm x 60 mm x 6,0 mm		
10021076	Squeegee blade (back) 6mm; long	(1)	
	740 mm x 60 mm x 6,0 mm		
10028053	Run - off hose		
	Length 850mm, Width 32 mm		▼ ()
10037071	Run - off hose; highly tearproof - optional		
	Length 750 mm, Width 32 mm		
10020949	Vacuum hose for back sucction unit		
10020804	Vacuum hose for side sucction unit		
10060134	Filling tool HEFTER with 2 m tube		

* Except for TURNADO 38

Pictures similar! Page 24

⁽¹⁾ for suction unit TURNADO 55 / 55 PRO und main suction unit VARIOTECH 82 / 82 PRO, VARIOTECH 112 PRO, FS 82 / 112 PRO, F

⁽²⁾ for wing suction unit VARIOTECH 82 / 82 PRO, VARIOTECH 112 PRO, FS 82 / 112



ACCESSORIES SCRUBBER - DRIER TURNADO 38

Artikelnummer:	Beschreibung	
10051885	Squeegee blade (front)	
	580 mm x 50 mm x 2,0 mm	
10051884	Squeegee blade (back) 2,0 mm	
	630 mm x 50 mm x 2,0 mm	
10052613	Gel-battery,	
	25 Ah, 12 V	Prometty of the state of the st
10057485	Super pad red	
	ϕ 380 mm	
10057486	Super pad beige	
	ϕ 380 mm	
10057487	Super pad green	
	ϕ 380 mm	
10057488	Super pad black	
	ϕ 380 mm	ALL SERVICES
10057489	Super pad brown	
	ϕ 380 mm	
10057491	Microfibre pad	
	ϕ 380 mm	
10057490	Pad holder super pad & microfibre pad	
	ϕ 380 mm	
10057483	Brush SN	
	ϕ 380 mm	
10051869	Brush PP	
	ϕ 380 mm - Standard	
10057484	Grit brush, TY	
	ϕ 380 mm	
		AND THE PERSON NAMED IN COLUMN TO PERSON NAM

Page 25 Pictures similar!



ACCESSORIES SCRUBBER - DRIER TURNADO 55 / 55 PRO VARIOTECH 82 / 82 PRO

TURNADO 55 / 55 PRO

Article no:		
	Description	
10020134	SSet of squeegees 4mm front and back squeegee (4 mm)	
	from and back squeegee (4 mm)	
10063510	Charger 24V 15A	
	for 105 Ah - Gel Batteries	-
10020122	Battery set cpl. 105 Ah	500/000
	Gel batteries	
VARIOTECH 82	/ 82 PRO	
Article no:	Description	
10023266	Set of squeegees 4 mm	
	2 front and 2 back squeegee (4 mm)	
10023268	Set of squeegees 5 mm - standard	
	2 front and 2 back squeegee (5 mm)	
10023270	Set of squeegees 6 mm	
	2 front and 2 back squeegee (6 mm)	
10063512	Charger 24V 30A for 160/180 Ah Gel batteries - VARIOTECH 82	
10063513	Charger 24V 30A for 160/180 Ah Gel batteries - VARIOTECH 82 PRO	
10023257	Battery set cpl. 160 Ah*	
	Gel batteries	₩ =
10023258	Battery set cpl. 180 Ah*	
	Gel batteries	
10023091	Battery Quick-Change drawer	
	for gel- and wet cell batteries	
10023097	Battery Quick-Change trolley	f]
	stainless steel	
		**

Crash bars for VARIOTECH 82 / 82 PRO Protect your scrubber drier against damage

10023091 1 x 10023097 2 x and the charger fitting to the machine

10023060

Charger 24V 30A for 160 / 180 Ah gel batteries - VARIOTECH 82 Charger 24V 30A for 160 / 180 Ah gel batteries - VARIOTECH 82 PRO 10063512 10063513

Pictures similar! Page 26



ACCASSORIES SCRUBBER - DRIER

VARIOTECH 112 PRO

VARIOTECH 112 PRO

VARIOTECH IT	2 PRU	
Article no:	Description	
10021038	Set of squeegees 4 mm	
	3 front and 3 back squeegee (4 mm)	
10021040	Set of squeegees 5 mm	
	3 front and 3 back squeegee (5 mm)	
10021042	Set of squeegees 6 mm	
	3 front and 3 back squeegee (6 mm)	
10021043	Set of squeegees 4/5 mm - standard	
	2 front and 2 back squeegee (5 mm), 1 front and 1 back s	squeegee (4 mm)
10063513	Charger 24V 30A	
	for 160/180 Ah gel batteries	
10063515	Charger 24V 30A	
	for 220 Ah gel batteries	
10021023	Battery set cpl. 180 Ah*	
	Gel batteries	
10021024	Battery set cpl. 220 Ah*	
	Gel batteries	
10020843	Battery Quick-Change drawer	
	or gel- and wet-cell-batteries	
10020890	Battery Quick-Change trolley	
	stainless steel	
10020758	Crash bars for VARIOTECH 112 PRO	
	Protect your srubber drier against damage	

Page 27 Pictures similar!



ACCESSORIES SCRUBBER - DRIER CONVERT 82 / TURNADO 82

CONVERT 82 / TURNADO 82

CONVERT 82 /	TURNADO 82	
Article no:	Description	
10025303	Squeegee (front) 3 mm	
	Yellow	
10025320	Squeegee blade (back) 4 mm	
	876 mm x 60 mm x 4,0 mm	
10025301	Squeegee blade (back) 5 mm - standard	
	876 mm x 60 mm x 5,0 mm	
10025325	Squeegee blade (back) 6 mm	
	876 mm x 60 mm x 6,0 mm	
10025527	Set of squeegees 4 mm	
	front and back squeegee	
10025528	Set of squeegees 5 mm - standard	
	front and back squeegee (5 mm)	
10025529	Set of squeegees 6 mm	
	front and back squeegee (6 mm)	
10028071	Run - off hose	
	Transparent	
10063514	Charger 24V 30A	
	for 160/180 Ah gel batteries	
10025509	Battery set cpl. 180 Ah*	
	Gel batteries	
10025356	Battery Quick-Change drawer	
	for gel- and wet-cell-batteries	
10025358	Battery Quick-Change trolley	
	stainless steel	
		ξ

^{*} For a second battery set (160 Ah or 180 Ah) for the use in Quick-Change battery exchange system you need the following articles: 10025356 1 x Battery Quick-Change drawer

1 x 10025358 2 x

Battery Quick-Change trolley Charger 24V 30A für 160 / 180 Ah gel batteries 10063514 1 x

Pictures similar! Page 28



ACCESSORIES RIDO- ON MACHINES

FS 82 / FS 112

Article no:	Description	
10023266	Set of squeegees 4 mm 2 front and 2 back squeegee (4 mm)	
10023268	Set of squeegees 5 mm - standard 2 front and 2 back squeegee (5 mm)	
10023270	Set of squeegees 6 mm 2 front and 2 back squeegee (6 mm)	

FS 82 / 112

FS 82 / 112		
Article no:	Description	
10063515	Charger 24V 30A	
	for 220 Ah gel batteries	
10063516	Charger 24V 30A	
	for 275 Ah gel batteries	
10063517	Charger 24V 30A	
	for 300 Ah wet-cell batteris	
10024024	Battery set cpl. 220 Ah*	
	Gel batteries	
10024025	Battery set cpl. 275 Ah*	
	Gel batteries	
10024026	Battery set cpl. 300 Ah*	黑纸
	Wet-cell batteries	
10024006	Batterie Quick-change drawer	
	for gel- and wet-cell-batteries	
10024017	Battery Quick-change trolley	
	stainless steel	

Page 29 Pictures similar!



ACCESSORIES RIDE-ON MACHINES

FS 82 / 112

FS 112

Article no:	Description	
10021038	Set of squeegees 4 mm	
	3 front and 3 back squeegee (4 mm)	
10021040	Set of squeegees 5 mm	
	3 front and 3 back squeegee (5 mm)	
10021042	Set of squeegees 6 mm	
	3 front and 3 back squeegee (6 mm)	
10021043	Set of squeegees 4/5 mm - Standard	
	2 front and 2 back squeegee (5 mm), 1 front and 1 back squeegee (4 mn	n)
10024235	Brush for rough dust admission	
	(back)	Jan Marine
10024237	Brush for rough dust admission	
	(front)	
10024261	Brush with extralong side bristles	
	for rough dust admission	
10021077	Squeegee blade (back) for rough dust admission	
	(740 mm x 60 mm x 4 mm)	
10020809	Squeegee blade (back) for rough dust admission	
	(448 mm x 60 mm x 5 mm)	
10021045	Front squeegee transparent for rough dust admission	
	(440 mm x 60 mm x 3 mm)	
10021046	Front squeegee transparent for rough dust admission	
	(666 mm x 60 mm x 3 mm)	

Pictures similar! Page 30



ACCESSORIES SWEEPER

KS 90 KS 105 FKS 100 PRO FKS 110 PRO

KS 90

Article no: Description

10044832 Gel battery 26 Ah

Properties of the state of the

10044830 Charger 4 Ah

for original equipment

10044831 Charger 8 Ah

for additional battery



FKS 100 PRO

Article no: Description

10044834 Battery 105 Ah



10044833 Charger 10 A



FKS 110 PRO

Article no: Description

10044836 Gel battery 180 Ah



10044835 Charger 25 A



Page 31 Pictures similar!



ACCESSORIES ESCALATOR AND MOVING PAVEMENT CLEANER RF 40

RF 40

Article no:	Description	
10023775	Set of brushes 0,8 mm wavy	
	1 brush right, 1 brush left, 2 glider, 6 countersunk screws	
10023776	Set of brushes 0,75 mm grit	
	1 brush right, 1 brush left, 2 glider, 6 countersunk screws	
10023777	Set of brushes 0,5 mm wavy	
	1 brush right, 1 brush left, 2 glider, 6 countersunk screws	
10023784	Set of brushes 0,8 mm long	
	1 brush right, 1 brush left, 2 glider, 6 countersunk screws	
10023790	Set of brushes 0,5 mm wavy, double bristle	
	brush right, 1 brush left, 2 glider, 6 countersunk screws	
10023793	Wear part - set of brushes 0,5 mm wavy (2 brush slide, 1 brush right,	
	1 brush left, 4 guides, 6 countersunk screws, 4 oval head screws)	Marketta myresta
10023794	Wear part - set of brushes 0,8 mm wavy (2 brush slide, 1 brush right,	- material material -
	1 brush left, 4 guides, 6 countersunk screws, 4 oval head screws)	La de la companya de
10023795	Wear part - set of brushes 0,8 mm long (2 brush slide, 1 brush right,	1 1 1
	1 brush left, 4 guides, 6 countersunk screws, 4 oval head screws)	
10023796	Wear part - set of brushes 0,75 mm grit (2 brush slide, 1 brush right,	
	1 brush left, 4 guides, 6 countersunk screws, 4 oval head screws)	
10023797	Wear part - set of brushes 0,5 mm wavy (2 brush slide, 1 brush right,	
	1 brush left, 4 guides, 6 countersunk screws, 4 oval head screws).	
10035180	Special escalator cleaning detergent	
	for RF 40	PROCESSIS DE

Pictures similar Page 32



ACCESSORIES SPECIAL CLEANING SYSTEMS VARIOCLEAN

VARIOCLEAN

Article no:	Description	
10043907	Foam lance for VARIOCLEAN	
10045215	Spray lance for VARIOCLEAN	
10043137	Carpet spray-extraction set	
10043138	Hard floor cleaning set	
10034014	Upholstery adapter 8 cm	

Page 33 Pictures similar!



ORDER FORM

we nereby order in accordance with the general te	rms and conditions of HEFTER cleantech GmbH.
System:	
Articel no.:	
Quantity:	
Unit price:	Euro
Prices are net ex works without prescribed legal va	lue added-tax. Shipment charges will be adeed
Adress for account:	Adress for delivery (if different from above):
Customer no.	Name orderer (in block letters)
Location, Date	legally binding signature / company-stamp



NOTES



NOTES





General Terms and Conditions

1. Area of application

The following General Terms and Conditions (T's &C's) apply to all deliveries and services. They take priority over any general terms and conditions of the contractual partner in all cases. Any changes or amendments agreed must be in writing.

2. Offers - Offer documents

Cost estimates and offers from HEFTER CLEANTECH (HCT) are subject to confirmation. Documents regarding both individual and standard performance only give approximate dimensions unless dimensions are explicitly designated as binding.

HCT retains ownership of all documents provided.

3. Placing of orders

Orders, including orders arranged by third parties, are only deemed to be accepted when the order has been confirmed in writing. This does not apply to the fulfilment of a purchase commitment.

The supplier is not liable for errors and mistakes in unclear verbal information or documentation from by the ordering party.

4. Prices

The price list only contains recommended list prices excluding value added tax. Prices apply respectively ex works Hefter Manufacturing plus

delivery costs plus actual value added tax.

If there are more than four months between the conclusion of contract and delivery, the supplier is entitled to pass on to the purchaser increases in material and/or wage costs of up to 10%. A substantial rise over and above entitles the purchaser to cancel the contract.

With regard to custom-made products, HCT is obliged to inform the customer about this directly or via its sales partner, unless performance is required for which there is an express estimate. Such performance will be separately remunerated. The same applies if services are used, which are charged at cost.

5. Payment

The payment period is 10 days from date of invoice. On expiry of the payment period HCT is entitled to charge interest on amount overdue of 8% above the respective discount rate of the European Central Bank without further notice. The right to declare further claims for damages arising from delayed payment is reserved.

If payments are outstanding, HCT is additionally entitled to make any delivery subject to immediate settlement. This applies to all unpaid accounts receivable arising from the business relationship.

6. Deliveries

Delivery takes place at cost and risk of the ordering party. Acts of God, which include labour disputes and other unforeseen events, discharges HCT from adherence to the delivery deadline. HCT is obliged to inform the purchaser immediately in such cases.

If the delivery deadline has to be cancelled for this reason, both parties are entitled to withdraw from the contract.

7. Acceptance

Acceptance takes place on handover to the recipient, irrespective of Clause 6. For custom-designed products, acceptance applies within one week (seven calendar days).

8. Right of withdrawal with business man (trader, entrepreneur) Redemption of goods / Costs of storage with business man

(trader, entrepreneur)

- a) Return of goods without acknowledgement of our legal duty
 only in good reasons within 10 days after purchase and against presentation of the invoice / delivery note possible. The warranty stays
- b) Only goods in proper, saleable condition, which are not custom-designed, can be considered for redemption.
- c) With deliverance of goods, the customer receives a credit note, reimbursing the value of goods, reduced by a storage fee. The costs of storage are flat at 15% of the value of goods. For electronic parts a

testing fee of 60,00 € applies per piece. In case of a wrong delivery, there is no storage fee.

9. Warranties

The purchaser is obliged to examine the delivery item immediately. Any defects must be reported to HCT within two working days (48 hours).

Later reporting of apparent defects is excluded. With custom designed products, the declaration of apparent defects is excluded following acceptance, even if such defects arise during operation of the equipment. Any intervention by third parties to the equipment will lead to the loss of warranty. The statutory regulations apply in all other instances.

Warranty periods of scrubber dryer (Except TURNADO 38) and RF 40:

10 years: all stainless steel chassis; 5 years: all plastic, aluminium and stainless steel tanks; 2 years or max. 1400 hours: flexible diaphragm panels and driving motors; 1 year or max. 700 hours: brush motors, vacuum motors, wing motors and pumps. All models have 1 year warranty on brush heads, cleaning heads, electronic touch pads, electronic boards, batteries, charger and RF 40 vacuum.

Warranty periods of sweeper, VARIOCLEAN: The warranty on all parts is 1 year.

Warranty periods of TURNADO 38: The warranty on all parts is 6 month.

Warranty exceptions:

Transport damage; misuse or wrong use (this also includes the use of non-permitted or aggressive chemicals or the use of materials not approved for the machine); lack of care and maintenance; use of batteries and chargers not tested and released by HCT. All wear parts such as brushes, roller brushes, filter, glider, squeegees etc.

The supplier is entitled to make a minimum of two attempts to rectify the damage before statutory entitlements apply.

10. Compensation

HCT's liability is determined exclusively by these General Terms and Conditions. Claims for compensation, no matter on what legal grounds, are excluded, unless they are based on deliberate or forceful careless breach of contract or action by HCT.

11. Reservation of ownership

All goods remain the property of HCT until payment has been made in full. Appropriate use (onward sale or use) of the delivery items is permitted, in which case the reservation of ownership is carried forward; this applies to the proceedings of sale or remuneration for services to the extent that the ownership rights are reduced through use.

If the purchaser acts in breach of contract, HCT is entitled to take back the delivery items and the purchaser is obliged to return them. Any cost arising will be born by the purchaser.

Due to the reservation of ownership, the purchaser may neither pledge the objects supplied nor infringe the reservation of ownership in any other way. HCT must be informed immediately of dispositions by third parties.

12. Miscellaneous

a) In the event of direct delivery by HCT to the end user, the General Terms and Conditions apply accordingly. In such an event HCT is entitled to have the customer's rights arising from the General Terms and Conditions implemented by his sales licence partner in the relevant territory. The customer must allow this as place of fulfilment by HCT

- b) Lowest order value for end user is 50,00 \in net. There is a extra charge of 10,00 \in net, plus VAT for orders lower than this value.
- c) Place of fulfilment is Prien am Chiemsee/Germany.

Updated version: 01/2011





HEFTER cleantech GmbH

Am Mühlbach 6
83209 Prien am Chiemsee

Germany

Phone + 49 (0) 80 51 - 686 175 Fax: + 49 (0) 80 51 - 686 179

E-Mail: cleantech@hefter.de www.hefter-cleantech.de