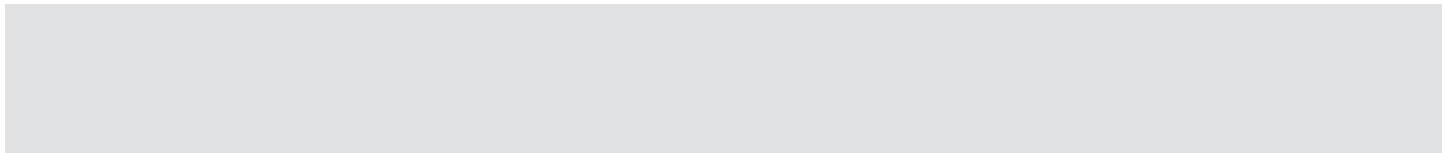


# SCRUBBER DRYERS.

## 10 TO 150 LITRES



CLEAN IS QUALITY













# ONE LIKE THE OTHER: KNOW-HOW AND TECHNOLOGY FROM GERMANY.

**10 litres with cylindrical brush  
battery-hybrid-operated  
main-operated**



page 8

Theoretical coverage max.  
1840 m<sup>2</sup>/h  
Working width 460 mm  
Working time up to 2,5 h

**10 litres  
battery-operated  
mains-operated**



page 12

Theoretical coverage max.  
1400 m<sup>2</sup>/h  
Working width 350 mm  
Working time up to 1,5 h

**20 litres  
battery-operated**



page 14

Theoretical coverage max.  
1720 m<sup>2</sup>/h  
Working width 430 mm  
Working time up to 2,5 h

**40 litres  
mains-operated**



page 18

Theoretical coverage max.  
1720 to 2200 m<sup>2</sup>/h  
Working width 430 and 550 mm

**40 litres  
battery-operated**



page 20

Theoretical coverage max.  
1720 to 2200 m<sup>2</sup>/h  
Working width 430 and 550 mm  
Working time up to 3,5 h

**60 litres  
mains-operated**



page 24

Theoretical coverage max.  
2640 m<sup>2</sup>/h  
Working width 660 mm

**60 litres  
battery-operated**



page 26

Theoretical coverage max.  
2200 to 2640 m<sup>2</sup>/h  
Working width 550 and 660 mm  
Working time up to 5 h

**70 litres  
battery-operated**



page 32

Theoretical coverage max.  
4620 m<sup>2</sup>/h  
Working width 660 mm  
Working time up to 4 h

**100 litres  
battery-operated**



page 36

Theoretical coverage max.  
4620 to 5600 m<sup>2</sup>/h  
Working width 660 and 800 mm  
Working time up to 8 h

**150 litres  
battery-operated**



page 40

Theoretical coverage max.  
6000 to 7500 m<sup>2</sup>/h  
Working width 800 and 1000 mm  
Working time up to 10 h



# POWERFUL CLEANING FASTER AND LONGER. WITH CYLINDRICAL BRUSH AND HYBRID TECHNOLOGY.

## WA 46|B 10 i.L. hybrid WA 46|K 10



- With a 46 cm working width and a capacity of up to 6,000 m<sup>2</sup> daily, this scrubber dryer with cylindrical brush technology proves itself in the most diverse settings. As a compact and versatile machine it can clean effectively in shops, showrooms, catering, industry, health care, hotels, swimming pools, at airports, on ferries, in gymnasiums or in schools.
- The innovative hybrid technology enables combined battery and power supply operation allowing cleaning intervals of up to two and a half hours. The integrated OPTIMA® batteries ensure absolutely flexible cleaning throughout the day. It's possible to work for 90 minutes at a time followed by full charging in only 3 hours or for shorter operating times with shorter charging intervals.
- For consistency of operation, the WA 46|K 10 can also be powered directly from mains electricity.



- ❶ Due to their clever construction, both the hybrid and mains powered versions allow edge to edge cleaning in both forward and reverse cleaning and vacuuming right up to the wall, with easy access to confined areas such as beneath radiators.
- ❷ With almost exactly 23 cm at the front end, this scrubber dryer is unmatched in its class for getting into hard to reach spaces.
- ❸ Thanks to intelligent water flow conception, the floor is dampened before contact with the brush. In this way, the cleaning solution has a chance to start working before the floor is scrubbed with 1200 rotations per minute. Even studded and anti-slip coverings are cleaned thoroughly and evenly with minimal water and chemicals.
- ❹ Both versions of this machine produce outstanding suction, even in tight spaces. The swivelling squeegee tool effortlessly collects loosened dirt from behind the cylindrical brush leaving the floors dry and ready to use again.



## SAFE OPERATION. EASY TRANSPORT. SPACE-SAVING STORAGE.

- The body of the machine is lowered with a lever placed on the back of handle to be raised again when loaded, transported or stored.
- For space-saving storage whether in the car or the utility closet, the handle can be folded across the front to lie flat.
- Both models are equipped with a red standard cylindrical brush. An extended program of brushes and pads is available to suit all kind of applications and hard floors.



- With only three elements, the control panel is self explanatory: A toggle main switch to begin operation, a push switch for water supply and another for the vacuum motor.
- The large opening allows the recovery tank to be emptied completely, cleaned thoroughly without effort and even disinfected according to HACCP specifications.
- Quick-Stopp as standard: When the handle lever is released, both the water supply and the cylindrical brush stop automatically.
- The lid for the solution tank serves as an integrated dosing aid for cleaning products.
- Both the solution and recovery tanks are easily clicked into place and removed. The large handles are a distinct advantage to allow the tanks to be carried easily.



Knob for stepless adjusting of the brush pressure



Curved squeegee tool directly behind the cylindrical brush

	WA 46LB10 i.L. hybrid	WA 46LK10
L x W x H	590 x 510 x 1200 mm	590 x 510 x 1200 mm
Working width	460 mm	460 mm
Suction width	520 mm	520 mm
Theoretical coverage max.	1840 m <sup>2</sup> /h	1840 m <sup>2</sup> /h
Noise level	68 dB(A)	68 dB(A)
Weight	60.4 kg	43 kg

#### ELECTRICAL DATA

Rated voltage	24 V / 110-240 V	220-240 V
Power max.	540 W	900 W
Mains cable	15 m	15 m
Battery	Optima 38 Ah 5	

#### TANK

Solution tank capacity	10 l	10 l
Recovery tank capacity	13 l	13 l

#### SUCTION MOTOR

Low pressure max.	125 mbar	180 mbar
Air flow max.	35 l/s	40 l/s

#### BRUSHES

Number	1	1
Speed	1200 rpm	1200 rpm



Change of cylindrical brush and squeegee blades without tools



Four handles in total for easy transport



SO SMALL, SO MANOEUVRABLE.

RA 35/B 10

RA 35/K 10



- ❶ The low cost scrubber dryer ideal for use in small areas and heavily congested spaces.
- ❷ Thorough cleaning up to the edge: consistently high brush pressure in combination with a swivel-mounted squeegee, which is located directly behind the brush.
- ❸ Large wheels for excellent manoeuvrability and easy transport.
- ❹ Guaranteed perfect working height: the ergonomically shaped handlebar can be adjusted to four different heights.
- ❺ The ultra compact design with a bevelled front provides for good cleaning under furnishings or around obstacles.
- ❻ Hygienic according to HACCP standards: the removable recovery tank can be cleaned and disinfected easily; the cover gasket replaced in no time. Excess fresh water can be drained completely.
- ❼ Operating handle can be folded flat across the scrubber dryer for easy transport in small vehicles and storage in tight spaces.
- ❽ Easy cleanout of recovery tank through outlet valve into floor drain. Or, easy and functional: by simply removing the tank and tipping the dirty water into any sink.
- ❾ Mains operated version for continuous working time, with powerful suction, lightweight for easy carriage and transport.

#### RA 35|B 10

#### RA 35|K 10

L x W x H	735 x 490 x 650 mm	735 x 490 x 650 mm
Working width	350 mm	350 mm
Suction width	420 mm	420 mm
Theoretical coverage max.	1400 m <sup>2</sup> /h	1400 m <sup>2</sup> /h
Noise level	66 dB(A)	66 dB(A)
Empty weight	44 kg	39 kg
Operating weight	74 kg (63 Ah 5)	49 kg

#### BATTERIES/ELECTRICAL DATA

Rated voltage	24 V	230 V
Power max.	440 W	470 W
Number of batteries	1	
Capacity gel	63 Ah 5	
Mains cable		12 m

#### TANK

Solution tank capacity	10 l	10 l
Recovery tank capacity	11,5 l	11,5 l

#### SUCTION

Low pressure max.	52 mbar	52 mbar
Air flow max.	14,5 l/s	14,5 l/s

#### BRUSHES AND PAD HOLDERS

Number	1	1
Speed	180 rpm	190 rpm
Brush pressure	28 kg	28 kg



# COMPACT. PROFESSIONAL. 20 LITRES.

## RA 43|B 20

- With lots of handy details and long operating intervals, the RA 43|B 20 shows its class in clinics, homes for the elderly, schools, shops, swimming and leisure centres, to name but a few locations – where compactness and manoeuvrability are decisive.
- A uniaxial construction with biaxial comfort: the transportation wheel is lowered by foot pedal. This means the machine can easily be rolled to the area where it is to be used, the pressure on the brush is relieved during storage and the brush can dry properly.
- Work close to edges and get underneath objects without difficulty: the brush head protrudes out 5 cm to the side.
- For easy access to batteries and motors, the recovery tank can be removed quickly and without tools.
- Hygiene in accordance with HACCP: the recovery tank can be thoroughly and effortlessly cleaned and disinfected via the large opening.







Self explaining control panel



Quick-Stopp as standard

- The working width of 43 cm provides extended fields of applications and greater area coverage in the 20-litre class.
- Quick-Stopp as standard: the brush motor and water supply stop automatically when you let go the handle.

- The recovery tank can be easily tilted and then comfortably and precisely emptied down to the last drop, through the drain hose and straight into the sink – up to a height of 50 cm.



## A CLASS OF ITS OWN.

- Save space when transporting and storing: simply fold the handle forward and remove the squeegee tool.
- For flexible work in cramped areas, the handle can be put into the right position in one movement.
- The arch-shaped squeegee tool with its patented mounting system actively adjusts to the movements of the machine and thus picks up all dirt, even in corners.



### RA 43|B 20

L x W x H	800 x 530 x 790 mm
Working width	430 mm
Suction width	730 mm
Theoretical coverage max.	1720 m <sup>2</sup> /h
Noise level	63/59* dB(A)
Empty weight	65 kg
Operating weight (76 Ah 5)	134 kg

### BATTERIES/ELECTRICAL DATA

Rated voltage	24 V
Power max.	900 W
Number of batteries	2
Capacity gel	76 Ah 5

### TANK

Solution tank capacity	20 l
Recovery tank capacity	23 l

### SUCTION

Low pressure max.	110 mbar
Air flow max.	32 l/s

### BRUSHES AND PAD HOLDERS

Number	1
Speed	180 rpm
Brush pressure	30 kg

\*silent version, optional.

- ❶ The brush or pad holder are positioned and dropped automatically: fast, comfortable and hygienic.
- ❷ The standard version with its 10 A integrated charger and powerful batteries allows for up to 2.5 hours of continuous operation.
- ❸ The version with an integrated 30 A quick-charging system and matching OPTIMA® batteries is ideal for flexible cleaning all day long with intermittent charging.
- ❹ Optional: the silent version with a noise level of just 59 dB(A).
- ❺ noBAC® version optional: antibacterial tanks for every kind of sites with stringent hygiene requirements according to HACCP concept or following hygiene plan.





POWERFUL SUCTION MOTOR AND PATENTED  
MOUNTING SYSTEM OF THE SQUEEGEE TOOL:  
EXCEPTIONAL SUCTION RESULTS.

RA 43|K40

RA 55|K40



	RA 43 K40	RA 55 K40
L x W x H	1000 x 465 x 815 mm	1035 x 525 x 815 mm
Working width	430 mm	550 mm
Suction width	730 mm	730 mm
Theoretical coverage max.	1720 m <sup>2</sup> /h	2200 m <sup>2</sup> /h
Noise level	66 dB(A)	66 dB(A)
Empty weight	69 kg	70 kg
Operating weight	104 kg	105 kg

#### ELECTRICAL DATA

Rated voltage	230 V	230 V
Power max.	1600 W	1600 W
Mains cable	25 m	25 m

#### TANK

Solution tank capacity	40 l	40 l
Recovery tank capacity	40 l	40 l

#### SUCTION

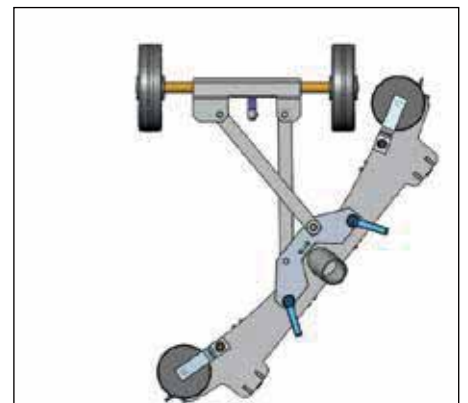
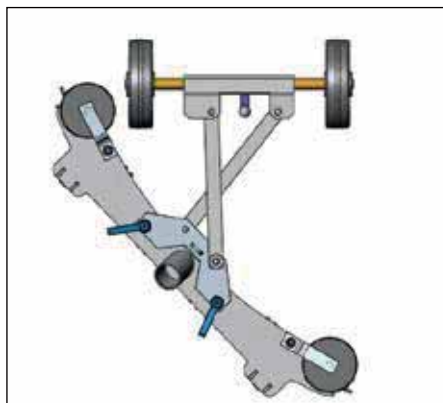
Low pressure max.	204 mbar	204 mbar
Air flow max.	45 l/s	45 l/s

#### BRUSHES AND PAD HOLDERS

Number	1	1
Speed	150 rpm	150 rpm
Brush pressure	45 kg	46 kg

- ❶ The compact mains operated machine, for efficient cleaning performance on small- or medium-sized surfaces.
- ❷ Single-axle design for exceptional manoeuvrability in the smallest areas.
- ❸ The form of the tank as well as the removable squeegee mounting system provide for easy transport up and down stairs, the fold-away operating handle saves storage space.
- ❹ Easy to clean: the recovery tank with sleek inner walls can be opened completely for simple rinsing and disinfection according to HACCP standards.
- ❺ Compact and easy to use with minimal overall machine dimensions and removable squeegee tool.
- ❻ Extremely high brush pressure, the best in its class.
- ❼ Simple operation with just two functional switches.
- ❽ The innovative, patented mounting system of the arch-shaped squeegee tool adapts actively to the movements of the machine and will perfectly pick up without leaving any waste water even on turns.
- ❾ Filter-protected large opening to the solution tank allows for fast refilling.
- ❿ Available in two cleaning widths of 43 cm or 55 cm – for multiple cleaning tasks within the 40-l-class.

#### The patented mounting system of the squeegee tool



# THE ALLROUNDER OF THE MIDDLE CLASS. 40 LITRES. ALL IN ONE APPLIANCE.

**RA 43|B 40**  
**RA 55|B 40**

- ❶ The universal scrubber dryer is available in various specifications – for multiple applications on all floors.
- ❷ Easy to operate without interruption of the working times with rugged mechanics instead of electronics: two functional switches on the handlebar, mechanical lowering of brush and squeegee tool.
- ❸ Quick-Stopp as standard: fresh water filter and magnetic valve for safe and comfortable working: brushes and water supply stop automatically by releasing the handle.
- ❹ Infinite dosage: the right amount of fresh water for any application.
- ❺ Innovative lateral bumper rollers protect machine and other objects.
- ❻ Service-friendly: easy maintenance with open access to battery and components.
- ❼ Hygienic according to HACCP standards: the scrubber dryer features a removable recovery tank with an easy to replace cover gasket for thorough cleaning and disinfection – the only one in its class. Excess fresh water can be drained completely.





# BACKWARDS AND FORWARDS: TRACTION MOTOR WITH AUTOMATIC SPEED CONTROL.

**RA 43|BM 40**  
**RA 55|BM 40**

- ❶ Intuitive, fatigue-free and safe working: height-adjustable handle bar, easy to operate control panel with ergonomic rocker function for back- and forward movements.
- ❷ Easy-to-read fresh water level indicator integrated into the drain hose.
- ❸ Optional splash guard for the brush head. Reduces water and chemical consumption and is eco-friendly.
- ❹ Optional silent version operates at a sound level of only 60 dB(A) for cleaning in sensible applications.
- ❺ Optional features for customization: with/without traction motor, two different cleaning widths, with/without integrated battery charger, with/without chemicals supply system, battery capacity from 76 Ah 5 to 110 Ah 5.
- ❻ noBAC® version optional: antibacterial tanks for every kind of sites with stringent hygiene requirements according to HACCP concept or following hygiene plan.



# TWO WORKING WIDTHS.



	RA 43/B40	RA 55/B40
L x W x H	1140 x 510 x 870 mm	1200 x 550 x 870 mm
Working width	430 mm	550 mm
Suction width	730 mm	850 mm
Theoretical coverage max.	1720 m <sup>2</sup> /h	2200 m <sup>2</sup> /h
Noise level	65/60* dB(A)	65/60* dB(A)
Empty weight	75 kg	77 kg
Operating weight (105 Ah 5)	193 kg	195 kg

## BATTERIES/ELECTRICAL DATA

Rated voltage	24 V	24 V
Power max.	900 W	900 W
Number of batteries	2	2
Capacity wet	110 Ah 5	110 Ah 5
Capacity gel	105 Ah 5	105 Ah 5

## TANK

Solution tank capacity	40 l	40 l
Recovery tank capacity	40 l	40 l

## SUCTION

Low pressure max.	110 mbar	110 mbar
Air flow max.	32 l/s	32 l/s

## BRUSHES AND PAD HOLDERS

Number	1	1
Speed	150 rpm	150 rpm
Brush pressure	23 kg	24 kg

\*silent version, optional.

# TWO VERSIONS.



## RA 43|BM40

## RA 55|BM40

L x W x H	1140 x 510 x 870 mm	1200 x 550 x 870 mm
Working width	430 mm	550 mm
Suction width	730 mm	850 mm
Theoretical coverage max.	1720 m <sup>2</sup> /h	2200 m <sup>2</sup> /h
Noise level	65/60* dB(A)	65/60* dB(A)
Empty weight	82 kg	84 kg
Operating weight (105 Ah 5)	200 kg	202 kg

## BATTERIES/ELECTRICAL DATA

Rated voltage	24 V	24 V
Power max.	1050 W	1050 W
Number of batteries	2	2
Capacity wet	110 Ah 5	110 Ah 5
Capacity gel	105 Ah 5	105 Ah 5

## TANK

Solution tank capacity	40 l	40 l
Recovery tank capacity	40 l	40 l

## SUCTION

Low pressure max.	110 mbar	110 mbar
Air flow max.	32 l/s	32 l/s

## TRACTION

Power max.	150 W	150 W
Speed max.	4 km/h	4 km/h

## BRUSHES AND PAD HOLDERS

Number	1	1
Speed	150 rpm	150 rpm
Brush pressure	23 kg	24 kg

\*silent version, optional.

THE GREAT LIGHTWEIGHT.  
FOR PRESSURE-SENSITIVE FLOORS.

RA 66|KM 60





- This scrubber dryer features high brush pressure, light weight, strong traction motor and extra-long mains cable for clean floors in gymnasiums and multi-purpose halls, that can be walked on immediately.
- The suction motor works with 230 bar low pressure – for superior suction power, typical of columbus scrubber dryers.
- Standard large surface coverage: the mains cable is 25 m long; tanks constructed in a space saving manner contain 60 litres each.
- The brush pressure can be adapted to the level of pollution of the floors and set to an optimum setting depending on the nature of the floors.
- At a low weight of 240 kg max. both models are suitable and in particular made for use on pressure-sensitive surfaces according to DIN 18032-2.
- Get started quickly, work for longer: mains operated, continuous working time without downtimes for recharging.
- The recovery tank with sleek inner walls has a large opening for fast and thorough cleaning, the cover gasket can be removed and replaced according to the hygiene regulations HACCP.
- Easy access to all components.
- Work effortlessly and safe: the handle bar is shaped ergonomically, the control panel is self-explanatory.

#### RA 66|KM60

L x W x H	1400 x 680 x 1000 mm
Working width	660 mm
Suction width	980 mm
Theoretical coverage max.	2640 m <sup>2</sup> /h
Noise level	70 dB(A)
Empty weight	180 kg
Operating weight	240 kg

#### ELECTRICAL DATA

Rated voltage	230 V
Power max.	1825 W
Mains cable	25 m

#### TANK

Solution tank capacity	60 l
Recovery tank capacity	60 l

#### SUCTION

Low pressure max.	230 mbar
Air flow max.	50 l/s

#### TRACTION

Power max.	200 W
Speed max.	5,5 km/h

#### BRUSHES AND PAD HOLDERS

Number	2
Speed	200 rpm
Brush pressure min./max.	33/36 kg

# SWITCH IN A FLASH: THE PATENTED MOUNTING SYSTEM FOR BRUSHES AND PAD HOLDERS.

**RA 55|BM 60**  
**RA 66|BM 60**

- Especially designed for varying needs, this scrubber dryer with traction motor masters every situation and guarantees thoroughly cleaned surfaces of medium and large sizes.
- Effortless and safe to use, even over longer working times: ergonomically shaped handle bar, easy to operate control panel including a rocker function for back- and forward movements, good all-around visibility.
- Compact design; with a length of 138 cm, it fits into all standard lifts.
- Optional: Various tyre variants for optimum adaption to diverse working conditions.

\*Picture with optional equipment



❶ Environmentally friendly: the optional chemical dosage provides for a consistently high cleaning level with a low consumption of cleaning products.

❷ Excellent suction performance with minimal noise: the suction motor has noise emissions of just 61 dB(A); the optional silent version of just 58 dB(A).

❸ noBAC® version optional: antibacterial tanks for every kind of sites with stringent hygiene requirements according to HACCP concept or following hygiene plan.

❹ Extremely adaptable: the adaptive brush system sits flat on the floor also on uneven surfaces – and cleans every little centimeter with full brush pressure.

❺ Fast, easy and hygienic changing of brushes and pad holders: the brushes and pad holders do not only spin-off with the press of a button, they also spin-on automatically.



- Service-friendly: the recovery tank tilts to the side for easy access to batteries and components.



- Fresh water can be filled up in an instant – via the integrated, industry-standard system connector or via the large filling opening.



- The two-tank system guarantees hygienic cleaning and disinfection in accordance with the HACCP Concept.



- Mop, broom and additional work materials can be carried along within easy reach on the optional tool board located on the side.





	RA 55 BM60	RA 66 BM60
L x W x H	1470 x 550 x 1100 mm	1375 x 680 x 1100 mm
Working width	550 mm	660 mm
Suction width	850 mm	980 mm
Theoretical coverage max.	2200 m <sup>2</sup> /h	2640 m <sup>2</sup> /h
Noise level	61/58* dB(A)	61/58* dB(A)
Empty weight	140 kg	147 kg
Operating weight (160 Ah 5)	315 kg	332 kg

#### BATTERIES/ELECTRICAL DATA

Rated voltage	24 V	24 V
Power max.	1240 W	1190 W
Number of batteries	4	4
Capacity wet	175 Ah 5	175 Ah 5
Capacity gel	160 Ah 5	160 Ah 5

#### TANK

Solution tank capacity	60 l	60 l
Recovery tank capacity	60 l	60 l

#### SUCTION

Low pressure max.	110 mbar	110 mbar
Air flow max.	32 l/s	32 l/s

#### TRACTION

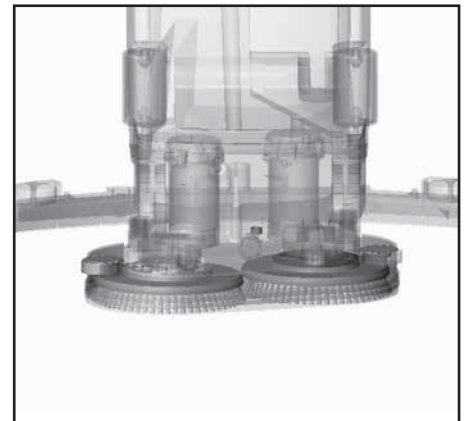
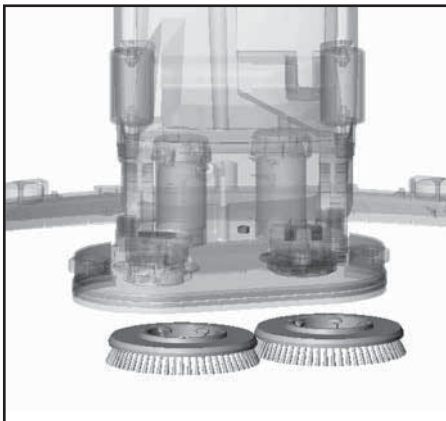
Power max.	300 W	300 W
Speed max.	6 km/h	6 km/h

#### BRUSHES AND PAD HOLDERS

Number	1	2
Speed	160 rpm	180 rpm
Brush pressure	30 kg	40 kg

\*silent version, optional.

### The patented mounting system







ERGONOMIC. EFFICIENT.  
AND EXCEPTIONALLY COMPACT.

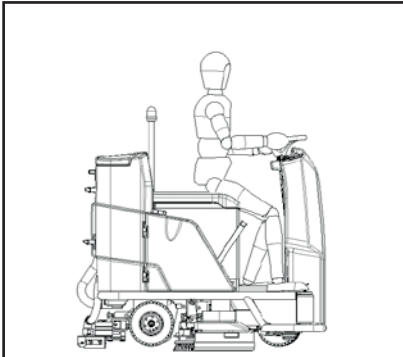
## ARA 66|BM70

- With a capacity of 70 litres, this ride-on scrubber dryer from columbus can perform efficient operations, even – and especially – in hospitals, supermarkets and other small buildings even with cramped and heavily-furnished areas.
- Whether the operator is just 155 cm or 195 cm tall, the long seat allows everyone to find the right position to work fatigue-free and relaxed.
- Fast, easy and hygienic changing of brushes and pad holders: the brushes and pad holders do not only spin-off with the press of a button, they also spin-on automatically.

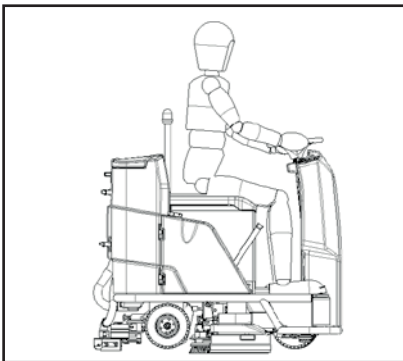




With small operator



With tall operator



Pull-out filter for large debris



Emergency stop button



- ❶ Fresh water can be filled up in an instant – via the integrated, industry-standard system connector or via the large filling opening.
- ❷ HACCP hygiene standards: the solution and recovery tank have inspection openings and can be thoroughly cleaned, the lid seal can be removed without tools.
- ❸ Robust mechanics instead of electronics: simple operating switches to turn the machine on and off and for forward and backward movements. Mechanical lowering of brushes and squeegee.
- ❹ Powerful traction motor and rear-wheel drive allow scrubbing on inclines of up to 12%.
- ❺ Optional: Various tyre variants for optimum adaption to diverse working conditions.



# MECHANICS INSTEAD OF ELECTRONICS. AND LOTS OF USEFUL FEATURES.

- Easy service: the seat can be lifted up to provide free access to batteries and components.
- Operators can act quickly and flexibly thanks to a low step height, an open cockpit on both sides and a spacious footwell.
- The arch-shaped squeegee tool with patented mounting system adapts actively to the movements of the machine and will perfectly pick up without leaving any waste water even on tight turns.
- Just 138 cm long and 85 cm wide, the ride-on scrubber dryer fits into all standard lifts and can easily negotiate narrow check-out areas.



## ARA 66|BM70

L x W x H	1380 x 680 x 1170 mm
Working width	660 mm
Suction width	850 mm
Theoretical coverage max.	4620 m <sup>2</sup> /h
Noise level	63/59* dB(A)
Empty weight	211 kg
Operating weight (180 Ah 5)	405 kg

- Optional: silent-version that operates at only 59 dB(A) and a security-kit for advanced security when used in facilities that are open to the public.
- Environmentally friendly: the optional chemical dosage provides for a consistently high cleaning level with a low consumption of cleaning products. The 8 litres chemical tank can be removed without tools.
- A faster clean: the area covered every hour is up to 600 m<sup>2</sup> larger compared to the performance of walk-behind scrubber dryers of the same size.

### BATTERIES/ELECTRICAL DATA

Rated voltage	24 V
Power max.	1640 W
Number of batteries	4
Capacity wet	200 Ah 5
Capacity gel	180 Ah 5

### TANK

Solution tank capacity	70 l
Recovery tank capacity	80 l

### SUCTION

Low pressure max.	110 mbar
Air flow max.	32 l/s

### TRACTION

Power max.	750 W
Speed max.	7 km/h

### BRUSHES AND PAD HOLDERS

Number	2
Speed	180 rpm
Brush pressure	40 kg

\*silent version, optional.



EXCEPTIONAL MANOEUVRABILITY. EFFICIENT.  
RELIABLE. IN ONE WORD: FUNCTIONAL.

**ARA 66|BM 100**

**ARA 80|BM 100**



\*Picture with optional equipment





- ❶ The easy to operate, compact ride-on scrubber dryer with solid mechanics is ideal for the daily cleaning of – among others – clinics and hospitals, smaller to medium industrial buildings and markets with narrow alleys and checkout zones.
- ❷ Battery capacity up to 320 Ah 5 for longer working time of up to 8 hours.
- ❸ Rugged mechanics instead of electronics: simple operating switches to turn the machine on and off and for forward and backward movements. Mechanical lowering of brushes and squeegee.
- ❹ Service- and maintenance-friendly: the recovery tank can be swiveled to the side, making components and battery fully accessible.
- ❺ Easy to transport: with an overall length of just 138 cm both models fit into all common lifts.
- ❻ The rear-wheel drive provides for good traction, the extremely tight turning radius of 1.9 m enables the use in multiple applications, such as narrow corridors and hallways.
- ❼ Effortless and safe to use: ergonomic operator's seat with good all-around visibility.
- ❽ Environmentally friendly: all plastic parts and steel components are 100% recyclable, the optional chemical dosage provides for a consistently high cleaning level with a low consumption of cleaning products.
- ❾ Equipped for great functionality, customized and adapted to the cleaning task: the silent version works at a reduced noise level of only 60 dB (A) and features an integrated battery charger as well as a security-kit for advanced security when used in facilities that are open to the public.
- ❿ Optional: Various tyre variants for optimum adaption to diverse working conditions.
- ⓫ noBAC® version optional: antibacterial tanks for every kind of sites with stringent hygiene requirements according to HACCP concept or following hygiene plan.

GOOD IN THEORY.



# GOOD IN PRACTICE.



	ARA 66 BM100	ARA 80 BM100
L x W x H	1380 x 760 x 1325 mm	1380 x 900 x 1325 mm
Working width	660 mm	800 mm
Suction width	850 mm	980 mm
Theoretical coverage max.	4620 m <sup>2</sup> /h	5600 m <sup>2</sup> /h
Noise level	64/60* dB(A)	64/60* dB(A)
Empty weight	235 kg	240 kg
Operating weight (320 Ah 5)	675 kg	680 kg

## BATTERIES/ELECTRICAL DATA

Rated voltage	24 V	24 V
Power max.	2330 W	2330 W
Capacity wet	250 Ah 5**/320 Ah 5	250 Ah 5**/320 Ah 5
Capacity gel	240 Ah 5**/280 Ah 5	240 Ah 5**/280 Ah 5

## TANK

Solution tank capacity	100 l	100 l
Recovery tank capacity	115 l	115 l

## SUCTION

Low pressure max.	170 mbar	170 mbar
Air flow max.	33 l/s	33 l/s

## TRACTION

Speed max.	7 km/h	7 km/h
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## BRUSHES AND PAD HOLDERS

Number	2	2
Speed	160 rpm	160 rpm
Brush pressure	50 kg	50 kg

\*silent version, optional.

\*\*with integrated charger.

## The easy-grip steering wheel



STRONG PERFORMANCE. READY TO GO  
AT THE PUSH OF A BUTTON. SIMPLY CONVENIENT.

ARA 80|BM 150  
ARA 100|BM 150



\*Picture with optional equipment



- ❶ The large ride-on scrubber dryer for long working times and high surface coverage of up to 7.500 sqm.
- ❷ High battery capacity up to 480 Ah 5 for a working time of up to 10 hours.
- ❸ The completely steady, infinitely variable brush pressure provides for perfect adaptation to the most varied and textured surfaces.
- ❹ With a light touch of the automatic button, the squeegee tool is lowered and the brush head placed in stand-by position. A simple touch of the accelerator puts all functions in motion: the brushes are lowered into the desired working position, exact brush pressure is activated, the pump supplies the right amount of water – the scrubber works in a pre-set mode. Operating errors are all but eliminated, a consistently high cleaning result can basically be "preset"!
- ❺ The recovery tank with sleek inner walls is easily accessible and therefore easy to clean.
- ❻ For effortless work with less stoppage: great machine ergonomics, matured and proved engineering for comfortable and trouble-free working.
- ❼ Drain hose at the lowest point of the tank allows for dosed or complete drainage of the tank.
- ❽ Locking brake for safe stopping and parking.
- ❾ Optional: spray lance for best cleanliness even into the corners.



BEST CLEANLINESS EVEN INTO THE CORNERS.  
WITH THE OPTIONAL SPRAY LANCE.



\*Picture with optional equipment

	ARA 80 BM150	ARA 100 BM150
L x W x H	1900 x 930 x 1440 mm	1900 x 1100 x 1440 mm
Working width	800 mm	1000 mm
Suction width	1200 mm	1380 mm
Theoretical coverage max.	6000 m <sup>2</sup> /h	7500 m <sup>2</sup> /h
Noise level	64 dB(A)	64 dB(A)
Empty weight	320 kg	370 kg
Operating weight (480 Ah 5)	850 kg	870 kg

#### BATTERIES/ELECTRICAL DATA

Rated voltage	24 V	24 V
Power max.	2430 W	2930 W
Capacity wet	480 Ah 5	480 Ah 5
Capacity gel	280 Ah 5	280 Ah 5

#### TANK

Solution tank capacity	150 l	150 l
Recovery tank capacity	150 l	150 l

#### SUCTION

Low pressure max.	170 mbar	170 mbar
Air flow max.	33 l/s	33 l/s

#### TRACTION

Speed max.	7,5 km/h	7,5 km/h
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#### BRUSHES AND PAD HOLDERS

Number	2	2
Speed	160 rpm	160 rpm
Brush pressure max.	100 kg	100 kg



# SUITABLE EQUIPMENT: ACCESSORIES AND BATTERIES.

## Pad holders

- ❶ Functional, reliable and durable: the new developed disc with small attachment hooks is made from hardwearing polyamide, glued and additionally clamped together. Specially designed hooks provide for better adhesion of pads.
- ❷ Lightweight, solid and durable: the base plate is made of foamed polypropylene and worked in a way so that the pads sit flat on the surface, ensuring much higher cleaning efficiency.
- ❸ Solid connectors made of steel and polypropylene (PP): perfect guide with less wear and tear.



## columbus pad holders



## columbus scrub brushes







### Brushes

- ❶ High quality and long life span: columbus brushes feature a dense network of bristles – for advanced stability, smooth running cycles and low levels of wear and tear.
- ❷ Improved cleaning performance: hollow grind of the brush tips allows for flat positioning of the brushes on the surfaces also when under pressure, outer bristles sit at an angle to enable thorough cleaning up to the edge.
- ❸ The particular structure of the bristles enables an ideal water distribution over the entire surface.
- ❹ Less consumption of water with Water-Stopp brushes: Special bristles enable up to 40% water savings. Available for lots of scrubber dryers.

The patented mounting system along with the next generation of columbus brushes and pad holders



# SUSTAINABILITY AT COLUMBUS: LESS OF EVERYTHING, BETTER FOR EVERYONE.

## ➤ Less impact on the environment thanks to an integrated chemical dosing system.

The dosage is regulated electronically, and the mixing ratio is always ideal: if less water is supplied, then fewer chemicals are used. Floors are thus cleaned gently and stay beautiful longer. In a sense, every cleaning cycle is an act of environmental protection.

## ➤ Less material consumption thanks to economic design.

Keeping things as compact as possible reduces material consumption and achieves the highest possible efficiency of the energy used. The tanks of columbus scrubber dryers are one example: constructed using innovative double-wall technology, the solution tank encases the battery compartment, saving space and weight.

## ➤ Less energy consumption thanks to low-friction transmission.

Low-friction gears require less energy to achieve the necessary power output for the brushes and the traction motor for optimal results.

## ➤ Less waste thanks to recyclable materials.

Most materials used for columbus scrubber dryers can be recycled. The mainly used materials are steel and polyethylene. Polyethylene can be ground into pellets and reused as a raw material for new tanks, and steel can be recycled such that it retains its original quality. The machines are equipped with electromechanical elements as far as possible. These mechanical components are easily recyclable; there are far fewer toxic electronic components than in large, centralised electronic control boards.

## ➤ Less water thanks to textured bristles.

columbus brushes have extensive, textured bristles positioned over the entire surface area of the brush. This way, the bristles work over a larger area and also distribute the sparingly applied water absolutely evenly. In addition, the outer ring of bristles is particularly dense and always retains sufficient cleaning solution within the brush, even when using small quantities of water.

Less consumption of water with water-stopp brushes: Special bristles enable up to 40% water savings. Available for lots of scrubber dryers.



# HYGIENE PLUS: SCRUBBER DRYERS WITH THE noBAC® SYSTEM.

## ANTI BACTERIAL SOLUTION AND RECOVERY TANKS

columbus noBAC® systems have been specially developed for use in hospitals, homes for the elderly, kitchens and the food industry – in other words, every area that has stringent hygienic requirements (HACCP).

noBAC® tanks are made of polyethylene enriched with an anti-bacterial, inorganic additive.

They are optionally available for columbus scrubber dryers B20, B/BM 40, BM 60 and ARA 100.

### How it works

- The additive works from the inside out, and prevents microbial growth in micro-fissures, dead-spots and rough surfaces. Bacteria are prevented from multiplying and killed.
- The noBAC® combination of active substances (polyethylene and additive) has been tested in relation to the bacteria strains *Escherichia coli*, *Staphylococcus aureus* and methicillin-resistant *Staphylococcus aureus* (MRSA), as stipulated by ISO 22196. Laboratory results confirmed the efficiency of noBAC®: bacteria strains were reduced by 99.9%.

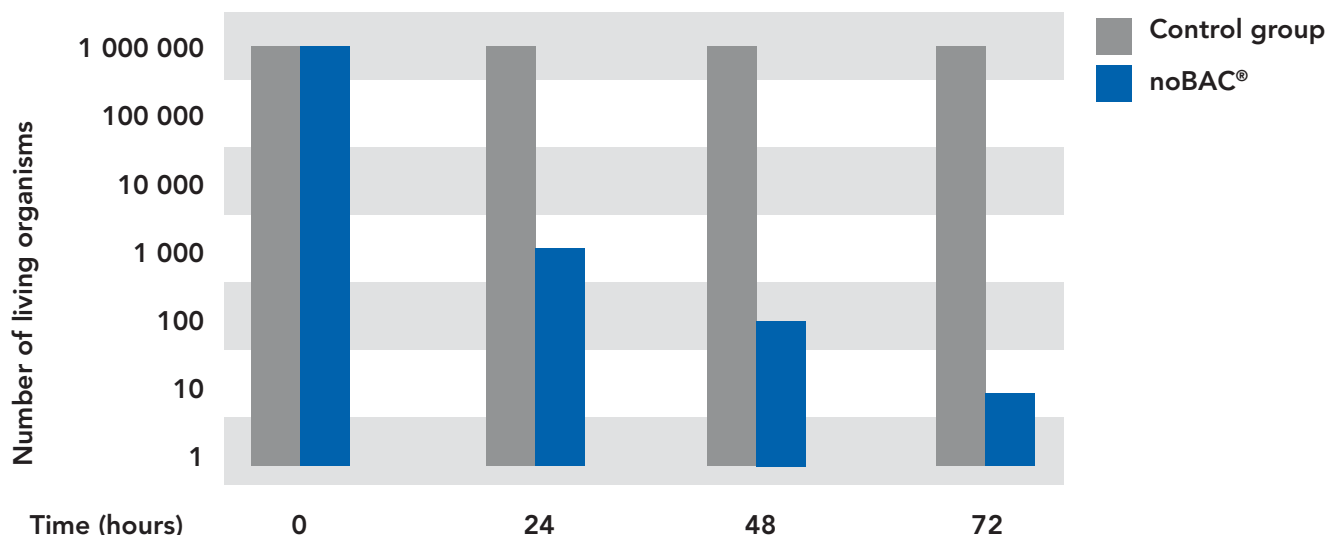
### Benefits

- Better hygiene and disinfection.
- Less work cleaning the machines, shorter service times for cleaning tanks, less expenditure on chemicals.
- noBAC® also protects users against bacteria.
- noBAC® does not have a use-by date – it works for the entire life-span of a tank.
- The noBAC® combination of active substances is both food-safe and compatible with every chemical – there are no interactions.

### Environmental protection

- The production, use and recycling of the tanks does not damage the environment at any point.
- Non-hazardous to health.

The diagram shows how noBAC® protection reduces bacteria growth over the course of three days.





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