



# COMBIMAC

## 130



## Combimac: all your cleaning needs in one combination machine

A robust sweeper and a high-performance floor scrubber, integrated into a single machine to simplify processes, reduce time and double productivity.

This is Combimac: the Comac combination machine that brings together the most advanced technologies for industrial cleaning on a single frame, combining the effectiveness of the sweeper and the power of the floor scrubber in a single compact, efficient and intuitive solution.

Thanks to its robust structure, performance-oriented design and ability to work on large surfaces continuously, Combimac is the concrete answer for those seeking high performance, operational versatility and uncompromising efficiency.



## One combination machine for many sectors



Industrial



Logistics



Large-scale retailing



Transport



Combimac is designed to meet the cleaning needs of very different environments, thanks to its ability to sweep and wash surfaces ranging from 20,000 to 60,000 sqm in a single pass.

Robust, reliable and performing, it is ideal for tackling even the most stubborn dirt in complex contexts such as industrial, logistics, transport or fruit and vegetable markets and large car parks.

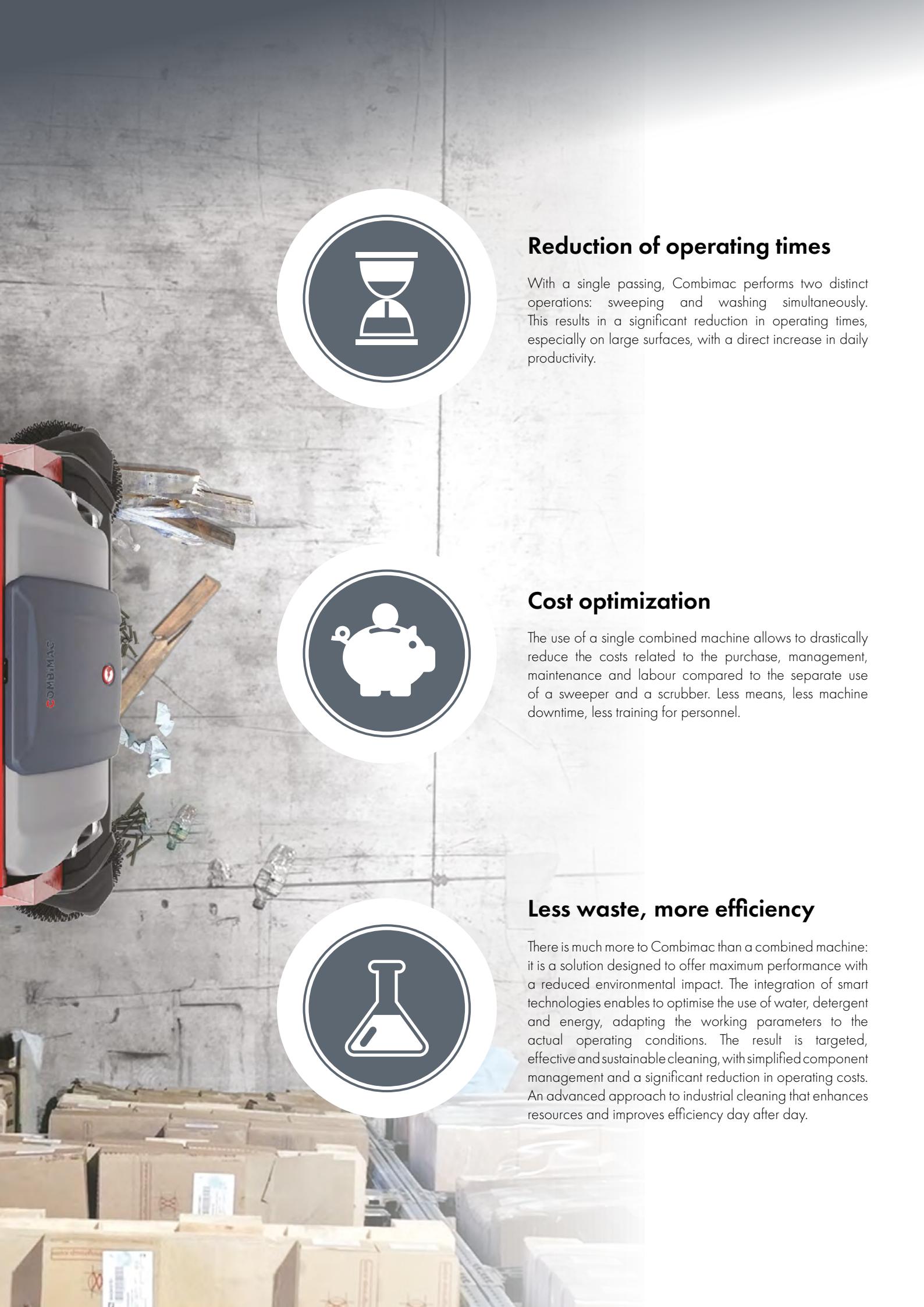
At the same time, its versatility makes it perfect even for environments where dirt is lighter but the surfaces to be cleaned are very extensive, such as in organised large-scale distribution, trade fair areas or large exhibition spaces.

Wherever you need to sweep and wash with maximum efficiency and reduced working times, Combimac is the right choice to ensure excellent cleaning results.

# Two machines in one, three **tangible** advantages: less **time**, lower **costs**, less **waste**

With Combimac you get the efficiency of a sweeper and the effectiveness of a floor scrubber, in a single combined machine. The result? More operational speed, fewer resources used and a faster return on investment.





## Reduction of operating times

With a single passing, Combimac performs two distinct operations: sweeping and washing simultaneously. This results in a significant reduction in operating times, especially on large surfaces, with a direct increase in daily productivity.

## Cost optimization

The use of a single combined machine allows to drastically reduce the costs related to the purchase, management, maintenance and labour compared to the separate use of a sweeper and a scrubber. Less means, less machine downtime, less training for personnel.

## Less waste, more efficiency

There is much more to Combimac than a combined machine: it is a solution designed to offer maximum performance with a reduced environmental impact. The integration of smart technologies enables to optimise the use of water, detergent and energy, adapting the working parameters to the actual operating conditions. The result is targeted, effective and sustainable cleaning, with simplified component management and a significant reduction in operating costs. An advanced approach to industrial cleaning that enhances resources and improves efficiency day after day.

# One machine, endless **solutions**

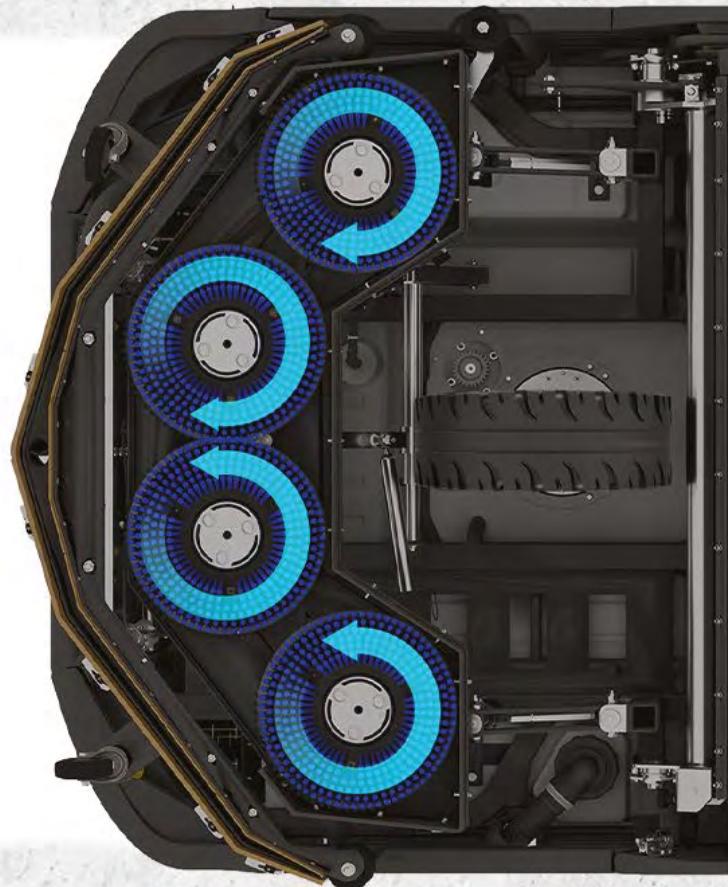
Combimac comes with a separate double action system consisting of a sweeping system of a sweeper and a washing base of a floor scrubber. This allows to have a single machine for sweeping and washing floors in a single pass, simplifying cleaning operations and improving operational efficiency.



## **Patented system:**

Combimac features an exclusive patented layout that positions the scrubbing unit after the drive wheel. This configuration ensures the wheel always operates on a dry surface, delivering greater traction, stability and operating continuity.

**TWICE MORE  
EFFICIENT,  
IN HALF THE TIME.**



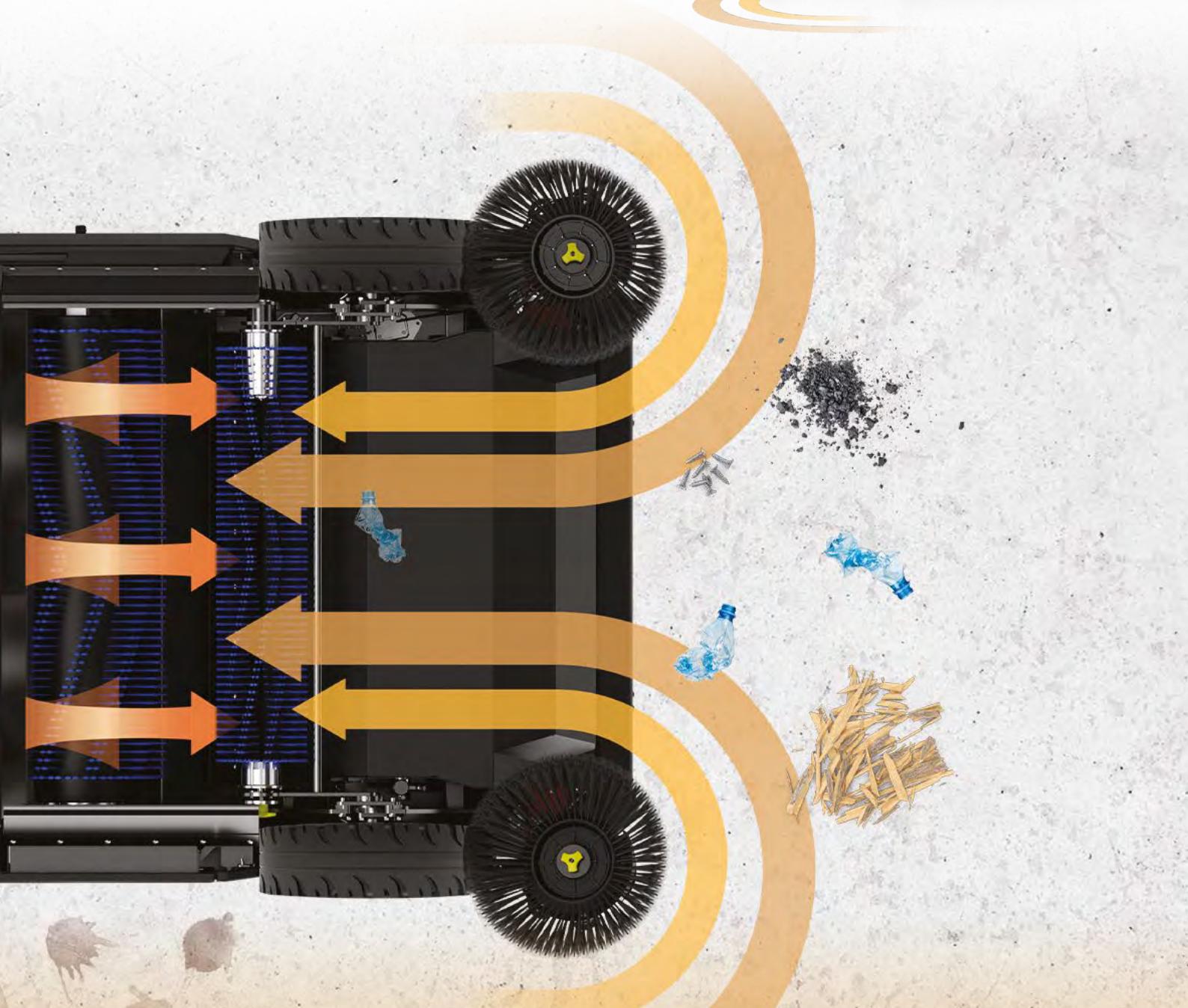
## **A high-performance floor scrubber**

Combimac's washing system consists of a high-performance industrial floor scrubber made up of four disc brushes that distribute and convey the cleaning solution towards the squeegee and the suction system. The brushes ensure a uniform and effective washing action even on the most demanding dirt, while the rear squeegee, combined with the double suction motor, removes liquid residues leaving the floor perfectly clean and dry in a single passing.

## Superior performance, without flap

Thanks to its configuration with two counter-rotating cylindrical brushes, Combitmac does not require the traditional front flap-lifting mechanism.

This innovative solution allows the machine to easily collect even bulky debris, avoiding interruptions in the collection flow and ensuring a greater loading capacity compared to conventional systems.



## A powerful sweeper

Combitmac's sweeping system is that of a powerful sweeper equipped with two side brushes that convey dirt and solid debris into the central part of the machine. From here, they are collected thanks to the central sweeping unit which consists of two counter-rotating cylindrical brushes. This configuration eliminates the need for the front flap lift mechanism, thus allowing Combitmac to collect any type of dirt: dust, bulky and light pieces such as cans, bottles or leaves as well as heavier ones such as stones, wood fragments or fruit. The dirt then ends up in the debris hopper which is actuated by hydraulic pistons to allow the emptying thereof.

# A powerful sweeper

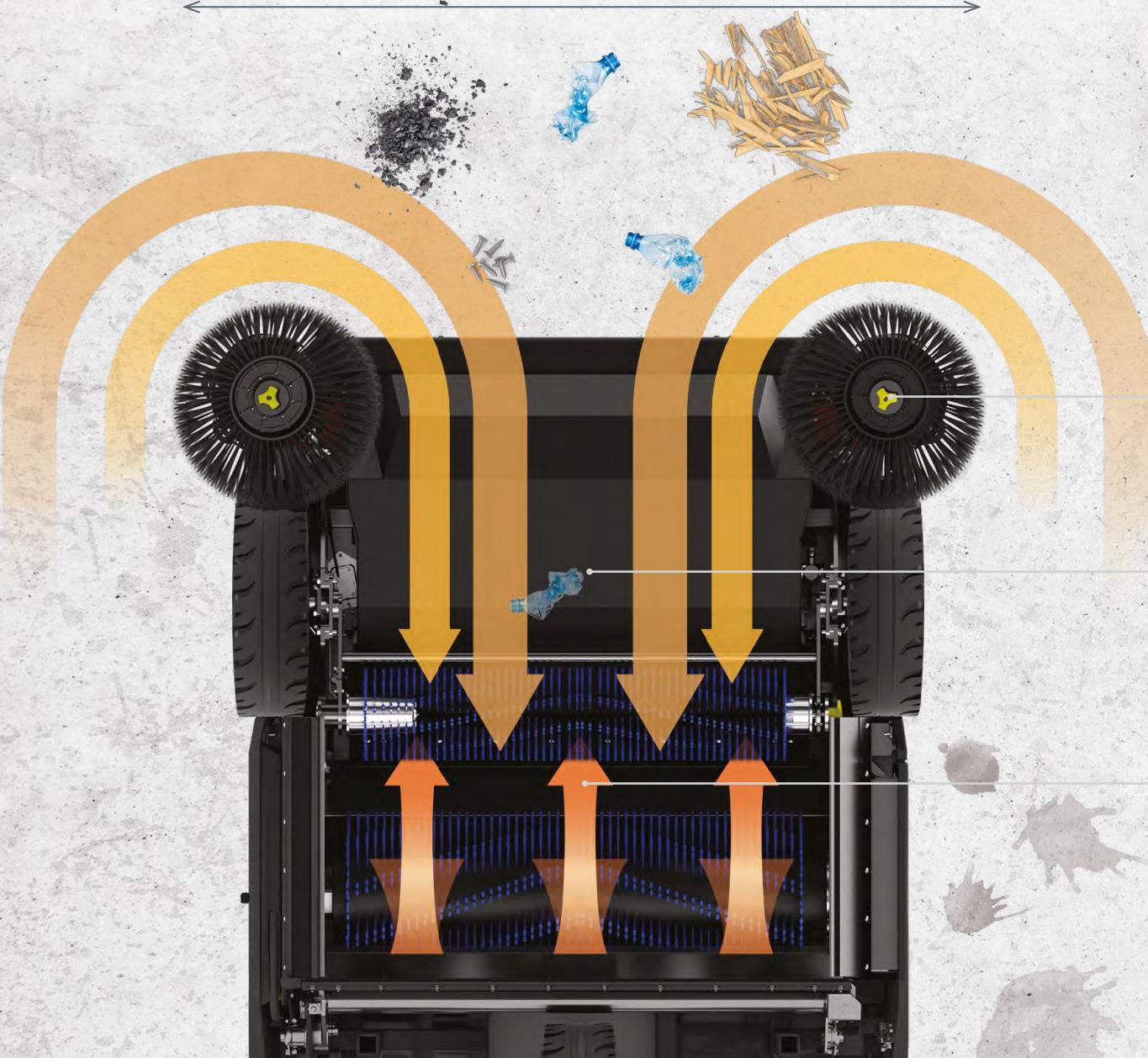
Combimac does not simply integrate a sweeping function: it is a true sweeper, designed to deal with even the most stubborn dirt. Each component of the sweeping system is designed to guarantee high performance, robustness and versatility in any operating context.



**300 LITRES**  
waste container

**1650 mm**  
discharge height

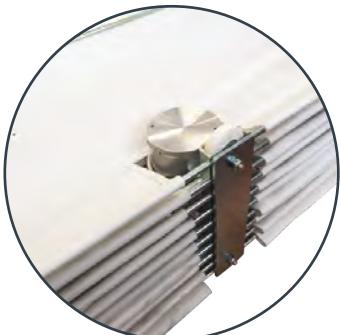
**1980 mm**  
sweeping track





### Cloth bag filter

Combimac comes with a cloth pocket filter with an 10 sqm filtering surface, designed to effectively retain large amounts of dust and ensure constant suction even during intense work cycles.



### Electric filter shaker

It automatically removes dust from the filter, keeps suction performance consistent, and reduces the need for manual cleaning.



### Cartridge filter

Combimac can be equipped with a kit consisting of three cartridge filters with a total filtering surface of 15 sqm, designed to ensure effective collection of fine dust and consistently uniform suction. Easy to clean and replace, the cartridge filters minimize maintenance while ensuring high and consistent performance under all working conditions.



**2** side brushes that convey dirt and solid debris into the central part of the machine

**10/15 sqm** filtering surface

**2** counter-rotating cylindrical brushes for collecting dirt

# Large capacity, maximum efficiency

Combimac comes with a 300 litres waste container, with a capacity above the category average, designed to guarantee a high collection range even in the most demanding conditions. More available volume means less interruptions for emptying, greater operational continuity and more fluid and efficient work management, especially on large and dirt-intensive surfaces.





## **Greater operational capacity**

With a capacity of 300 litres, the Combimac dumpster is among the largest in its category. This allows to work on large surfaces without frequent interruptions, increasing productivity and reducing downtime.

## **Less emptying, greater continuity**

By reducing the number of stops for unloading, Combimac simplifies the entire cleaning cycle, making it smoother and more efficient. Fewer interruptions mean less stress for the operator and more predictable work times.

## **Discharge at height with hydraulic system**

The lifting and discharge system is hydraulic, designed to offer maximum power even with heavy loads. In fact, unlike electrical systems, hydraulic systems guarantee constant thrust, reliability over time and greater resistance to mechanical stress.

## **Ready for the industry**

The robustness of the collection and discharge system makes Combimac ideal for industrial environments, logistics warehouses, markets or contexts where the waste to be managed is not only dust, but also smaller, heavier or bulky debris.

## **Maximum visibility during unloading**

When the waste hopper is lifted for emptying, Combimac's design has been carefully engineered to ensure maximum visibility for the operator. The position of the hopper and the geometry of the system allow precise control of every unloading phase, enhancing safety and ease of use even in the most demanding environments.

# A high-performance floor scrubber

Combimac does not simply add a washing function: it is a true industrial floor scrubber, designed to offer effective results even on stubborn dirt and complicated surfaces. Each component of the washing system is designed to guarantee efficiency, resistance and impeccable drying right from the first step.



Working speed up to  
**8 Km/h**

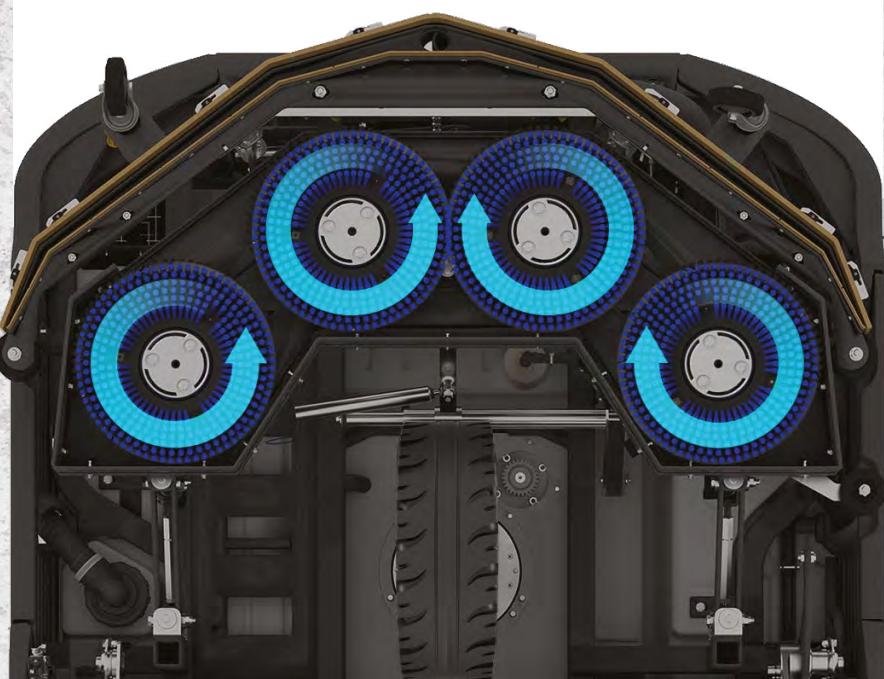
Solution tank and  
recovery tank  
**300 LITRES**

 Brush pressure  
adjustable up to  
**150 Kg**

## Squeegee for perfect drying

Made of robust steel, the Combimac squeegee has been designed to accurately follow the movements of the machine, ensuring uniform drying even when cornering. Its solid structure and optimised configuration effectively channel dirty water to the suction motors, leaving the floor perfectly dry right from the first passing.

cleaning path  
**1300 mm**





## Double suction motor

The suction system of the washing part of Combimac comes with two motors designed to ensure effective and uniform drying. Powerful and reliable, they ensure complete drying of liquids even during intense work cycles.



## spray tool & suction tool

**Precision cleaning in every detail**



## constant solution flow

Combitmac comes with the CSF technology, which ensures a homogeneous and even distribution of the detergent solution throughout the work track. Thanks to a calibrated flow system, it improves washing efficiency even with low flow rates, optimising the use of the solution and reducing waste.



## pressure monitoring

Combitmac comes with the Pressure Monitoring system, which constantly monitors the pressure exerted by the brushes to automatically adapt to floor and dirt conditions. This allows to optimise cleaning performance, simplify the use of the machine and protect the motors from incorrect use.



**4** disc brushes that distribute and convey the detergent solution to the squeegee and the suction system

# Consistent **performance**, even on inclined surfaces

Handling sloppy surfaces has never been easier. Thanks to its powerful motor and rear-wheel drive, Combimac can handle ramps and inclined surfaces with extreme safety and operational continuity, overcoming slopes of up to 250.



**UP TO 20%**

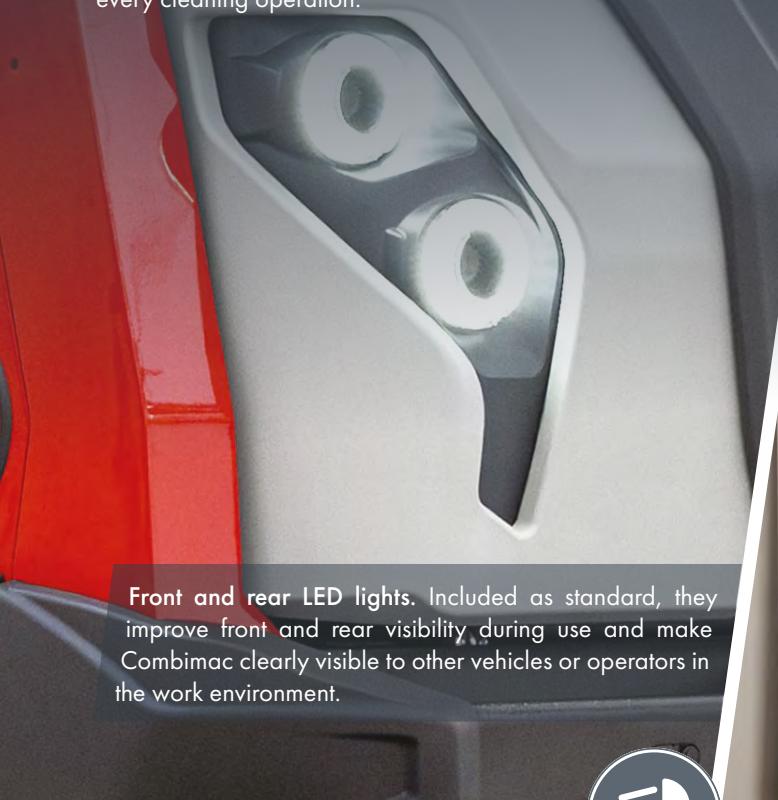
## Designed to ensure operating continuity

The high-performance AC electric motor guarantees torque and control even in the most demanding conditions, making Combimac the ideal solution for multi-level environments such as elevated car parks, logistics centres and industrial facilities with loading ramps. Power, traction and stability combine to deliver consistent performance, wherever reliability is needed.



# Safety is integrated into every detail

Combimac was built to operate in complex environments, where visibility, operator protection and the safety of the surrounding spaces are key priorities. For this reason, it can be equipped with several equipment designed to reduce risks and ensure maximum peace of mind during every cleaning operation.



**Front and rear LED lights.** Included as standard, they improve front and rear visibility during use and make Combimac clearly visible to other vehicles or operators in the work environment.

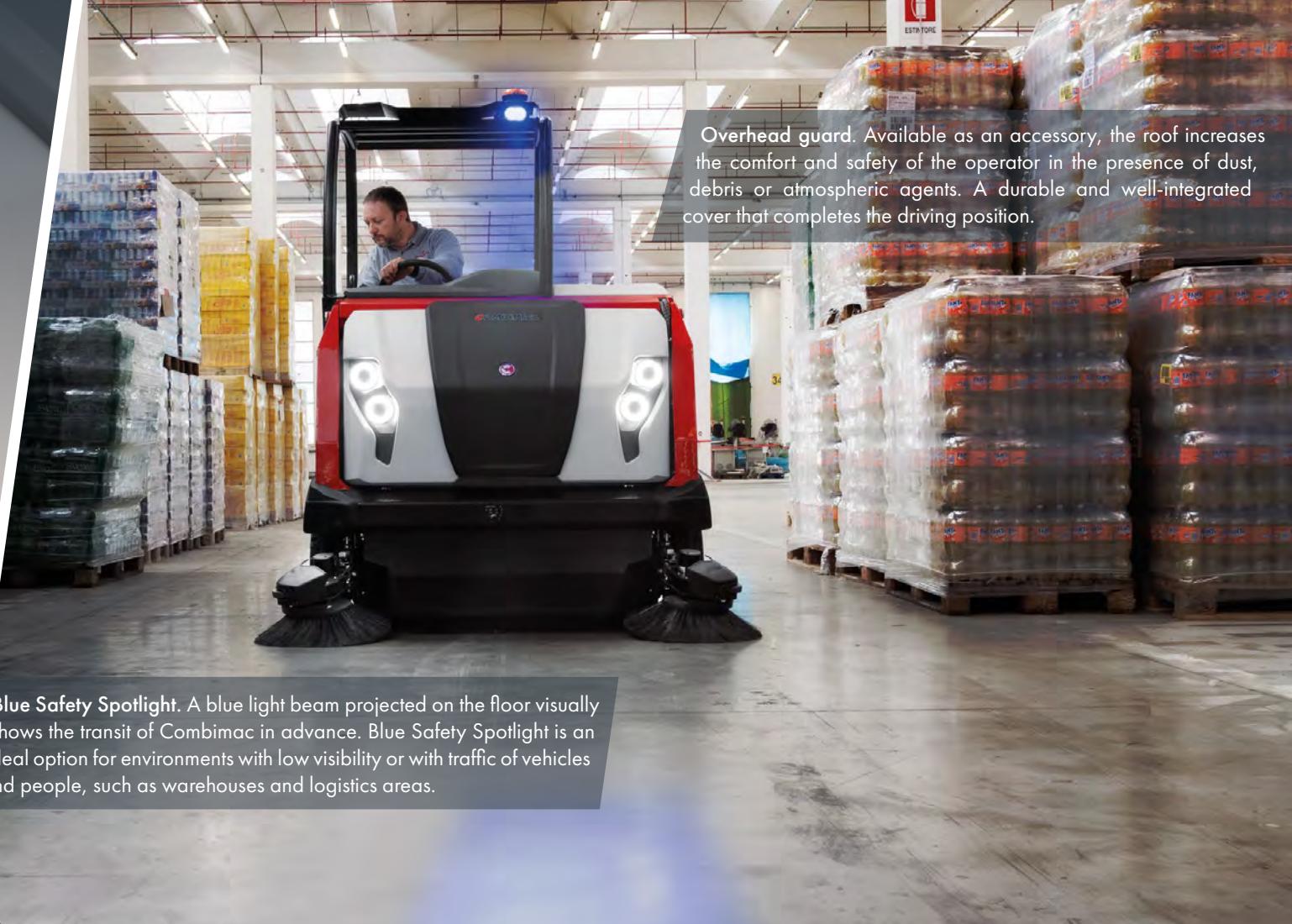


**Courtesy lights.** They allow to operate safely during maintenance or control activities, illuminating the technical areas even in poor visibility conditions.



**Rear camera kit.**

It improves the visibility of the rear area of the machine, facilitating manoeuvres and helping to prevent collisions or accidents when reversing, even in narrow or poorly lit spaces.



**Overhead guard.** Available as an accessory, the roof increases the comfort and safety of the operator in the presence of dust, debris or atmospheric agents. A durable and well-integrated cover that completes the driving position.



#### Blue Safety Spotlight.

The blue light beam projected on the floor visually shows the transit of Combimac in advance. Blue Safety Spotlight is an ideal option for environments with low visibility or with traffic of vehicles and people, such as warehouses and logistics areas.

The system is completed by self-registering drum brakes which guarantee constant and reliable braking performance, reducing the need for adjustments and increasing safety during each manoeuvre.

#### Bumpers in R.I.M. polyurethane.

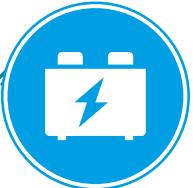
Integrated safety structure, designed to protect the operator and the machine from any impact.

## The right energy for every operating environment

CombiMac comes with two battery power configurations to suit different operating contexts and duty cycles: high-capacity lead-acid batteries or next-generation lithium batteries.

### **lead batteries**

A reliable choice for those who work in demanding industrial environments and need to cover long working shifts. This configuration guarantees prolonged autonomy and constant performance, thanks to a battery box designed to withstand wear and simplify maintenance operations. The reliability of lead technology results into operational continuity and fewer unforeseen events.



### **lithium batteries**

Ideal for those seeking greater energy efficiency, fast charging and zero maintenance. Lithium-ion technology offers greater safety, a greater number of charging cycles and more flexible energy management, even in intermittent or multi-shift work contexts. Compared to conventional lead batteries, they significantly reduce machine downtime and operating costs related to battery maintenance, eliminating the need for periodic interventions such as water refilling.

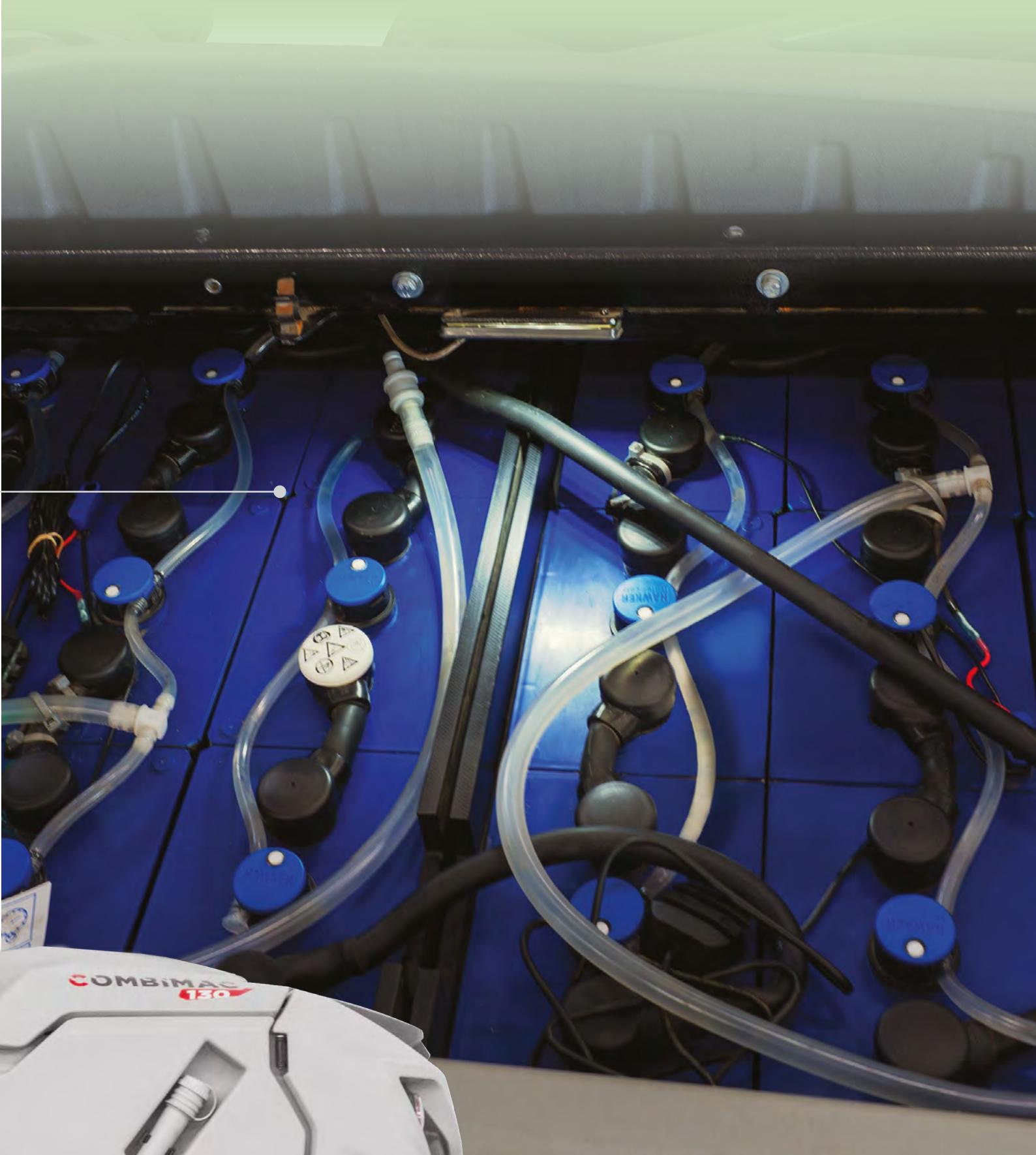


## Power supply: a strategic choice

Choosing an electric machine like Combimac means adopting an efficient, sustainable and perfect solution for modern industrial environments. The electric motors guarantee a direct transfer of energy without leakage, offering immediate power and constant performance, right from the first use.

In addition, the absence of emissions, the reduced noise and the possibility of operating in closed spaces make Combimac ideal for sensitive environments, such as warehouses or food handling areas.

No fuel costs, simplified maintenance and maximum operating durability: this is how Combimac ensures reliable performance, concretely supporting efficiency and environmental respect in your cleaning activities.



## Comfort, full vision, total control

Ergonomics studied in detail, high-quality materials and a wide and intuitive driving position make the CombiMac experience efficient, comfortable and safe.



The **driving position** is raised, de-centred and advanced: a design choice that improves frontal and lateral visibility, ensuring optimal control of the work area at every stage of the intervention.



**The machine is easy to access**, while the seat is designed to offer maximum comfort even during long shifts: seat with armrests, headrest and customizable adjustments to adapt to each operator.



The **automotive-derived steering wheel** and fluid steering offer precise and comfortable driving, while the forward and reverse lever is positioned close to the steering wheel to easily shift the three pre-set working speeds, without distractions.



The **colour touch screen display** allows to monitor the machine parameters and access the main features quickly and intuitively, while the standard rear camera kit further improves safety, making reversing even easier and safer.



Lateral **control panel** with buttons designed to offer immediate and intuitive access to the main functions, reducing distractions and facilitating interaction during work.



**Video tutorials** always available through the touch screen display, useful to guide the operator in the main operations of use and maintenance, at all times.



The **power steering** reduces the effort required to steer, making driving easier and more precise in any working condition. A solution that improves operator comfort throughout the entire shift, especially in frequent manoeuvres, helping to reduce fatigue and increase overall efficiency.



# Protected **components**, maximum **safety**

Combimac's robust design encloses all the components within the machine structure, avoiding protrusions and protecting the mechanical parts from accidental impacts or damage during use. A design choice that improves safety for the operator, protects reliability over time and allows the machine to operate safely and orderly even in the most complex and busy environments.



## **anti-collision sensor**

### **Front and rear**

To ensure maximum safety during use, Combimac comes with both front and rear anti-collision sensors. These devices detect the presence of obstacles in the manoeuvring areas, helping the operator to avoid accidental impacts and protecting people, facilities and surrounding objects. A valuable support that increases operational safety and allows to work with greater peace of mind, even in crowded or complex spaces.



## Brushless motors for uncompromising operation

Almost all Combimac motors are brushless.  
A technological choice that offers numerous advantages:



### Greater efficiency

The absence of brushes on the motors reduces losses due to friction, so all power is transferred directly to the work.



### Longer life

By not generating heat and not requiring forced ventilation, the engines are less subject to wear and damage from infiltration.



### Zero maintenance

As there are no parts subject to consumption, brushless motors do not require periodic maintenance.



### Electronic control

Fully electronic management allows to modulate performance according to working conditions, optimising consumption and efficiency.



## Excellent performance and reduced impact: all the value of Comac technologies on Combimac

Combimac integrates an ecosystem of advanced technologies designed to optimise every phase of work, improving performance, safety and sustainability, to make daily cleaning easier, safer and more efficient.

### **constant solution flow**

#### **Even distribution, superior results**

The CSF technology ensures a correct distribution of the solution on both brushes, guaranteeing a homogeneous and constant delivery along the entire work track. In this way, cleaning efficiency is improved even with low flow rates, optimising the use of the cleaning solution and reducing waste.



### **comac dosing system**

#### **Smart dosing, optimised cleaning**

Combimac can be equipped with CDS, the dosing system that independently regulates water and detergent, allowing the operator to adapt the solution to the specific dirt. This allows to achieve better cleaning results, reducing water and chemical waste by up to 50% and improving the efficiency of cleaning operations.



### **pressure monitoring**

#### **Maximum effectiveness on any type of floor**

Pressure Monitoring is Comac technology that constantly regulates the power delivered by the motors on the brushes, so as to ensure maximum cleaning efficiency on any floor, including uneven one. The ability to automatically adapt to soil conditions and dirt level, simplifies the use of the Combimac washing system, preserves the engines from improper use and ensures always excellent results in every operating context.



### **intelligent pressure monitoring**

#### **Constant and smart measurement**

IPM is Comac technology that allows to constantly and accurately monitor the pressure exerted on the brushes, offering the operator a true and instantaneous indication. It is not a simple pressure sensor, but a smart system that becomes a valuable support especially in the presence of stubborn dirt, always ensuring maximum cleaning effectiveness and simplifying the use of the Combimac washing system.



### **stop&go**

#### **Optimise cleaning operations by reducing consumption and emissions**

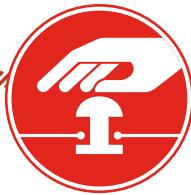
Stop&Go is the smart system that reduces waste and optimises consumption during breaks. When Combimac stops, all active functions stop automatically: the delivery of the solution is interrupted, the brushes stop and the base lifts off the floor. When restarting, the functions are reactivated with a simple gesture, ensuring a concrete saving of resources and a reduction in emissions, without any effort for the operator.



## emergency stop

### Safety at your fingertips

The emergency stop is a command designed to be clearly identifiable, clearly visible and above all quickly accessible. Its operation is very simple, pressing the Combimac button stops all functions. Should the operator be in dangerous situations, activating this button allows to block all functions and the machine stops and automatically engage the safety brake.



## rear view camera

### Greater comfort and safety

Combitmac comes with a rear camera to ensure greater safety and practicality during use. Installed at the rear, the camera allows the operator to easily and immediately check for obstacles during reversing manoeuvres, minimising the risk of accidents. In addition, with a quick swipe on the display, you can check the cleaning performance by staying comfortably in the driving position, without having to turn around. A concrete support to work with more comfort, precision and peace of mind.



## anti-collision sensor

### Maximum safety and peace of mind for the operator

Combitmac's anti-collision sensor automatically detects the presence of obstacles, allowing to prevent accidents without the operator being distracted from driving. Reliable support that increases the safety of the operator and those nearby, reducing effort and allowing to work with greater peace of mind.



## led lighting

### More light, greater safety, less consumption

The LED lights installed on Combitmac ensure maximum visibility and safety during every cleaning operation. They effectively illuminate dimly lit areas and make the machine clearly recognisable, whether moving or stationary. Available both front and rear, they increase operator comfort and help prevent accidents, while improving energy efficiency. Thanks to LED technology, the lighting is clearer and more homogeneous, allowing to save up to 80% compared to conventional headlights and a considerably longer life, without the need for maintenance.



## blue safety spotlight

### Distraction-free safety

The blue LED light projected on the floor signals the arrival of Combitmac in advance, reducing the risk of accidents due to distractions, even in noisy environments where acoustic signals may not be perceived. Discreet but always visible, it guarantees maximum safety without creating discomfort, while led technology ensures reduced consumption, long life and less maintenance.



## Smart performance, easy management

Combitmac's modern and functional lines contain the latest generation of Comac technology, designed to guarantee high performance and maximum reliability. The perfect ergonomics of the driving position and digital instrumentation ensure comfort and easy access to all information, making every operation intuitive. Combitmac thus becomes a versatile and easy-to-use machine: sweeping and washing can be controlled simultaneously, while all the data collected is transformed into clear information, allowing to manage each phase of the cleaning operations accurately and safely.

### working program selector



-  Drying
-  Sweeping and washing
-  Washing and drying
-  Sweeping, washing and drying
-  Sweeping

A practical working program selector allows to adapt Combitmac to different operational needs, choosing the most suitable mode for each type of surface and level of dirt. The operator can easily select whether to use only the sweeping part, only the washing part or both at the same time. When needed, Combitmac quickly transforms into a sweeper or scrubber, ready to intervene efficiently on any surface.



## Three work programs for custom cleaning



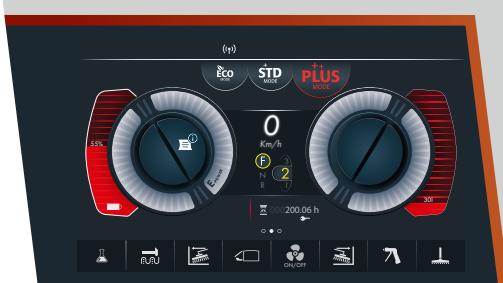
### ECO

**ECO PROGRAM:** Sustainable, simple and quiet, the ECO Mode program is ideal for less demanding cleaning operations, such as daily maintenance of slightly dirty surfaces. Thanks to an optimized management of the battery and consumption, this program guarantees efficient performance with a low environmental impact. The perfect choice for those who choose to use a machine that combines cleaning efficiency and respect for the environment.



### standard

**STANDARD PROGRAM:** The STANDARD program is designed for the daily cleaning of medium dirty surfaces. Balanced in performance, it makes the most of all Combimac features, optimally activating both the sweeping and the washing parts. It guarantees a complete, fast and constant cleaning, ensuring optimal results for standard use.



### plus

**PLUS PROGRAM:** The PLUS program is designed to deal with the most stubborn dirt and the most demanding cleaning conditions. With enhanced brush power and intensive water and detergent delivery, this program easily removes tough debris and stubborn stains. The ideal solution for extraordinary interventions, capable of guaranteeing perfect results even in the most demanding conditions.



# Always **connected**, always under control

Comac Fleet Care is the technology that takes Combimac to a higher level of efficiency and management. Thanks to digitalisation, you can communicate directly with the machine, collect data and transform it into useful information to optimise every cleaning operation, both sweeping and washing. With CFC you always have full control, wherever you are: you can monitor a single machine or an entire fleet in real time, reducing operating costs, increasing safety and improving performance.



## Analysis of interventions

customisable according to your needs: for intervention, construction site, individual machine or entire fleet. This allows to have a graphical view of all the most important aspects of cleaning activities.



## Telemetry

which allows you to view in real time the information relating to the status of the machine in order to understand if there are any anomalies. You can remotely check the health of the components and the machine and understand if you are using it to its full potential.



## Two-directional information flow

you can receive the information from the machine but you can also modify some of its parameters remotely.



## Reporting of anomalies and impacts

that allow you to take prompt action and identify any improper behaviour. In addition, the data collection function allows you to view the status of the machine in the 30 seconds before and 10 seconds after the impact in order to have an estimate of the extent of the failure and the causes that caused it.



#### **Battery management**

to maximise their useful life. This allows you to know the status of the batteries, how they are used and how they are recharged in order to correct any inappropriate behaviour.



#### **Tag management**

which allows the use of the machine only by authorised personnel. You can also choose to limit the use of a certain tag on a certain machine so that it is not used by those who are not adequately trained.



#### **Detailed and customisable reporting**

to have the information you deem most useful at your fingertips. You can download the report whenever you want or choose to receive a customised one on a regular basis directly on his email.



#### **Analysis of environmental impacts**

of every single cleaning operation thanks to the estimate calculated on each individual machine. The graphs allow you to understand how much energy is consumed during the operation and the energy needed to recharge the batteries. As well as the amount of cleaning solution used and the CO<sub>2</sub> produced in a day for each single operation. With this information, you can learn about the impact of cleaning activities and take action to make them more sustainable.

# ReWater: more operation durability for Combimac reducing the environmental impact of cleaning

ReWater is the Comac technology that allows Combimac to increase productivity by reusing wash water. Thanks to the two-stage filtering system, the water used during cleaning operations is recycled, allowing the machine to work continuously for the entire duration of the batteries without wasting time in pit stops.

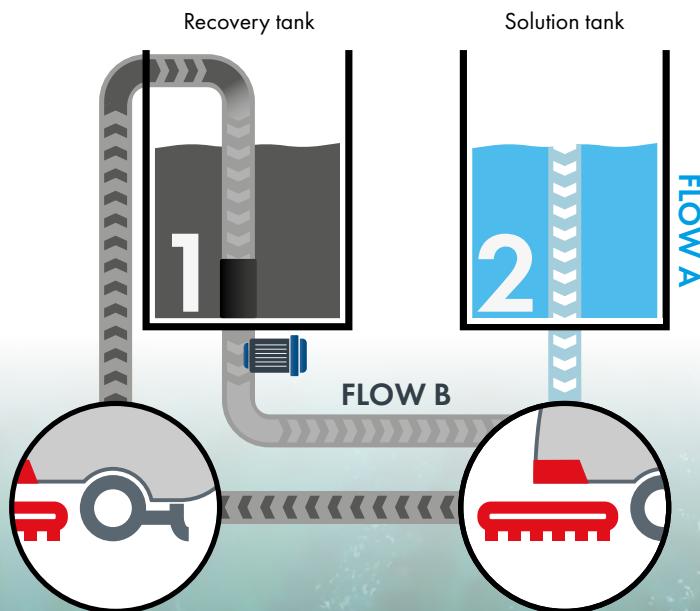
**rewater**

## Uncompromising and waste-free cleaning

At the heart of the ReWater technology installed on Combimac is the two-stage mechanical filtration system, designed by Comac to ensure consistent performance even with recycled water. The washing water is filtered and reused, reducing the solution required for cleaning operations by up to 50% and minimising disposal times. This translates into a concrete saving of resources and an increase in productivity compared to a conventional machine.



## HOW THE 2-STAGE COMBIMAC REWATER SYSTEM WORKS



### FLOW A

Combimac works in standard mode without recycling.

### FLOW B

1. The solution used for floor washing is collected in the recovery tank. It is subsequently passed through an inflow basket filter, capable of retaining the solid residues present in the dirty water.
2. The water passes through a mesh filter positioned inside the recovery tank, then with a pump it is sent directly to the brushes.

Recycling is only carried out in the recovery tank. This means that the solution tank remains always clean. In addition, you can always choose to use the Combimac ReWater in standard mode without recycling.

REUSE  
REDUCE  
REWATER

## Maximum efficiency, minimum impact

ReWater not only improves efficiency, but also makes operations more sustainable. Reducing the consumption of detergent and water minimises the emissions of pollutants, while optimising time allows to work continuously and safer for the operator. A solution that combines high performance and respect for the environment, making every cleaning intervention more responsible and productive.



## WHY CHOOSE COMBIMAC WITH REWATER?

ReWater technology is designed for maintenance work on slightly or moderately dirty floors, typical of public, logistics or production environments, allowing a significant saving of water and detergent, reducing costs and limiting environmental impact. With this technology, Combimac combines efficiency, sustainability and increased productivity in daily cleaning operations.

# Simple maintenance: more time for cleaning

Thanks to an smart design and construction solutions designed for intensive use, CombiMac minimises maintenance times, reducing downtime and ensuring constant performance.



Parts involved in daily maintenance are marked yellow to facilitate their identification.

Basket filter to block any debris and prevent it from settling on the bottom of the recovery tank.

Anti-foam filter positioned outside the tank to provide greater protection for the vacuum motors against detergent foam.

 Easy access to fabric filter for quick, tool-free removal.

 The brushes and the coupling system have been designed to greatly facilitate the coupling and uncoupling operation.

 Front side brushes that are easy to remove without the use of tools.



POSSIBILITY OF INSTALLING THE PROTECTIVE OVERHEAD GUARD TO SHELTER THE OPERATOR.



COURTESY LIGHTS



COURTESY LIGHTS TO ILLUMINATE THE KEY POINTS OF COMBIMAC MAINTENANCE, SO THAT EVERY INTERVENTION IS QUICK, PRECISE AND WITHOUT SHADOW AREAS. A DETAIL THAT INCREASES SAFETY AND SIMPLIFIES DAILY OPERATIONS, ESPECIALLY IN POORLY LIT ENVIRONMENTS.

THE REAR ACCESS ON COMBIMAC HAS BEEN DESIGNED TO FACILITATE OPERATOR ACCESS TO THE MAIN COMPONENTS, MAKING MAINTENANCE FASTER, SAFER AND MORE INTUITIVE.

EASILY ACCESSIBLE BATTERY COMPARTMENT FOR EASY MAINTENANCE.



Spray tool to spray the solution on surfaces not reachable with the scrubber and to clean the tanks easily and effectively.



OPTIONAL

Suction Tool for cleaning even the most difficult to reach areas with the suction lance.



## Accessories and optionals

STANDARD EQUIPMENT	COMBIMAC 130	COMBIMAC 130 REWATER
<b>Comfort</b>		
Hour meter	•	•
Touch screen display	•	•
On board video tutorials	•	•
Brush release knob	•	•
Eco Mode and Plus Mode	•	•
3-level speed adjustment	•	•
Working program selector	•	•
Squeegee rubber blades and splashguard in 33Sh, usable on the 4 sides	•	•
Maintenance elements identifiable by their yellow colour	•	•
Indicator light for solution tank in reserve	•	•
Decentralised driving	•	•
Highly comfortable, adjustable seat with armrests and headrest	•	•
IPM (intelligent pressure monitoring)	•	•
Continuous solution level sensor	•	•
Stop&Go	•	•
<b>Safety</b>		
Emergency stop	•	•
Automatic parking brake with assisted uphill start	•	•
Hydraulic working brake	•	•
Bumpers in R.I.M. polyurethane	•	•
Anti-skid wheels	•	•
Dead man's switch	•	•
Anti collision system	•	•
Reversing buzzer	•	•
Horn	•	•
Led headlights with 2 intensity levels	•	•
Rear headlights plus led stop light	•	•
Rear view camera	•	•
Rollbar	•	•
Seat belts	•	•

OPTIONAL	COMBIMAC 130	COMBIMAC 130 REWATER
CDS (Comac Dosing System)	•	-
CFC (Comac Fleet care)	•	•
ST (Spray tools)	•	-
ST (Suction tools)	•	-
Courtesy lights package	•	•
ReWater	•	•
Blue Safety Spotlight	•	•
Overhead guard with Blue Safety Spotlight	•	•

ACCESSORIES	COMBIMAC 130	COMBIMAC 130 REWATER
Cartridge filter kit	•	•
Fast filling system	•	•

## Dimensions and technical data

TECHNICAL DESCRIPTION		COMBIMAC	COMBIMAC 130 REWATER
Solution tank	l	300	300
Recovery tank	l	300	300
Detergent tank capacity (CDS versions)	l	10	10
Debris hopper volume	l	300	300
Drainage height	mm	1650	1650
Working width (scrubbing brush head)	mm	1300	1300
Working width (sweeping brush head)	mm	1180	1180
Working width (sweeping brush head)	mm	1980	1980
Squeegee width	mm	1510	1510
Standard filter	Format	Bags	Bags
Standard filter	Material	Cloth	Cloth
Filtering surface	sm <sup>2</sup>	10	10
Theoretical sweeping productivity up to	sm <sup>2</sup> /h	15840	15840
Theoretical scrubbing productivity up to	sm <sup>2</sup> /h	10400	10400
Estimated sweeping productivity up to	sm <sup>2</sup> /h	19800	19800
Estimated scrubbing productivity up to	sm <sup>2</sup> /h	13000	13000
Minimum autonomy	h	3,5	3,5
Theoretical autonomy	h	6	6
Sound pressure level (ISO 11201)	db (A)	<70	<70
Disc brush Ø	(n.) mm	(4) 355	(4) 355
Central brush	(n.) mm	(1) 410 x 1180	(1) 410 x 1180
Side brushes Ø	(n.) mm	(2) 550	(2) 550
Brush pressure up to	Kg	Up to 150	Up to 150
Scrubbing brush head motor	(n.) V/W	(4) 36/750 AC	(4) 36/750 AC
Brush rotations on scrubbing brush head	rpm	300	300
Sweeping brush head motor	(n.) V/W	(1) 36/1000 AC	(1) 36/1000 AC
Brush rotations on sweeping brush head	rpm	400	400
Suction motor	(n.) V/W	(2) 36/500	(2) 36/500
Traction	-	rear aut. electro-brake	rear aut. electro-brake
Traction motor	V/W	36/4000 AC	36/4000 AC
Forward speed	Km/h	10	10
Working speed	Km/h	8	8
Gradeability	%	20	20
Supply	-	(battery) Box-36/735	(battery) Box-36/735
Machine weight (without batteries)	Kg	1590	1590
Machine weight (with batteries)	Kg	2370	2370
Machine weight GVW	Kg	2745	2745
Batteries weight	Kg	780 (acid) / 324 (lithium)	780 (acid) / 324 (lithium)
Machine dimensions (l x w x h)	mm	3000x2250x1760	3000x2250x1760



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**Comac S.p.A.** org. cert. ISO 9001, ISO 14001, ISO 45001, SA 8000, ISO 14064-1

