

GREENPRO

designed by ghibli & wirbel

FR 15 M 38 BC



GoinGreen
Ghibli & Wirbel Sustainable Vision

EU green
sheet 

COMMITMENT TO THE ENVIRONMENT

The focus on environmental protection and pollution reduction is an issue of global interest. The Planet's resources are not infinite and, for this reason, must be preserved carefully, without waste, respecting ecosystems and biodiversity. This awareness leads to the need to make even **economic growth more sustainable and environmentally friendly**.

Ghibli & Wirbel makes a daily and concrete commitment to becoming an increasingly sustainable company. This important change is represented and told through the new GoinGreen symbol. In fact, the company has embarked on a path towards sustainability that will be increasingly enriched by projects related to this issue in the coming years. In this new symbol, the colours of the institutional logo, yellow and blue, icons of Ghibli & Wirbel's quality and reliability, blend to form the colour green, an emblem of the initiatives undertaken to protect the environment. Whereas the pinwheel represents the future and expresses a fundamental concept: the time has come to take action to ensure a better tomorrow for future generations.



GoinGreen
Ghibli & Wirbel Sustainable Vision

The company, certified ISO 9001 since 1995 (Quality Management System), strives to ensure safe and healthy working environments and to be an environmentally responsible organisation. Ghibli & Wirbel is also dedicated to constantly reducing energy and water consumption, using less paper and fuel, reducing noise in all its forms, and keeping waste production as low as possible. The entire production process applies **principles of environmental and social sustainability**: the company has started the process to obtain ISO 14001 (Environmental Management System Certification) and SA 8000 (Social Accountability) certification with the CSQ certification body.

The fruit of this work and investment has led to excellent results that contribute to increased corporate sustainability. There have been many green initiatives undertaken in recent years, but one in particular has required exceptional effort. The company, in fact, has achieved an important result: **introduce the use of recycled plastic in the production of its professional cleaning machines and produce sustainable products without sacrificing the quality that has always distinguished G&W products.**



The EU Green Sheet is a technical document that accompanies the individual models of the Ghibli & Wirbel fleet. Inside you will find clear, up-to-date and reliable information on environmental performance.



The EU Green Sheet is an operational tool capable of responding quickly and comprehensively to the EU's strategic directions, such as EU Green Deal COM (2019) 640, the 'new action plan for the circular economy. For a cleaner and more competitive Europe' - COM(2020) 98) and Regulation (EU) 2020/852 'establishment of a framework to facilitate sustainable investment'.

It is your daily support in developing technical offers in public tenders and a valuable ally in commercial offers for private customers.

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GREEN PRO FR 15 M 38 BC: ENVIRONMENTAL HIGHLIGHTS

Ghibli & Wirbel, a company that has always been attentive to respect for the environment, has decided to renew the FR 15, an important benchmark in the segment of small scrubber-dryers, in an eco-friendly key: thus GREEN PRO FR 15 M 38 BC was born, a machine produced in regenerated plastic material and subjected to stringent durability tests to guarantee the same quality and reliability as the standard model. The modern design of the GREEN PRO FR 15 offers personality, ergonomics and small dimensions to clean where other scrubber-dryers do not reach or struggle the most, a functional aesthetics that encompasses a system of first-class technical solutions:

- the front knob above the brush head allows the angle of incidence to be adjusted, enabling the GREEN PRO FR 15 to adhere perfectly to the work surface in any situation and with any type of accessory, with excellent performance;
- the practical external wheel allows the head to be adjusted in height, avoiding overloading of the motor on 'difficult' surfaces, the GREEN PRO FR 15 can thus work anywhere without any problems;
- the vacuum motor guarantees excellent drying results and is now even more reliable, thanks to the new protection filter;
- the squeegee, capable of making bends up to 270°, now even more practical thanks to the innovative foot pedal lift system, which allows it to be raised safely and conveniently in any situation.

Maximum functionality and performance which, together with its small size and high autonomy, make this model the optimal solution for all environments and surfaces, even the most cramped and inaccessible ones.

PRODUCT IDENTIFICATION

MODEL

GREEN PRO FR 15 M 38 BC

CODE

13.0050.70

- Green Pro FR 15 consists of **18% recycled plastic**. Many hours of work, substantial investment in research and development, careful studies and specific field tests have enabled this important result to be achieved. The main objective was to make truly sustainable products while maintaining the quality and performance of standard machines. **This makes Green Pro FR 15 compliant with COM (2020) 98 'A new action plan for the circular economy. For a cleaner and more competitive Europe'.**



- The Green Pro FR 15 is a quiet machine that still delivers high performance. The noise emitted during work is, in fact, 65 dB(A), making the Green Pro FR 15 ideal for day cleaning and for cleaning in environments where a low noise level is an essential and qualifying element (hospitals, schools, retirement homes). **This feature makes Green Pro compliant with the Machinery Directive 2006/42/EC.**



- Splash guard to prevent water wastage during work sessions and, at the same time, prevent water and dirt from damaging the work areas.



GREEN PRO FR 15 M 38 BC: ENVIRONMENTAL HIGHLIGHTS



MADE IN ITALY



ITALIAN SUPPLY CHAIN 88%



NORMATIVE REQUIREMENTS AND MACHINE CERTIFICATIONS

The GREEN PRO FR 15 M 38 BC, based on its design, type of construction and the version introduced to the market, complies with the basic safety and health requirements of the EC directives.



All products comply with the REACH Regulation (EC) No. 1907/2006, which concerns the registration, evaluation, authorisation and restriction of chemicals used in the production cycle, and the RoHS Directive 2011/65/EU and subsequent supplements, introduced to restrict the use of certain harmful and hazardous substances in electronic components.



Developed by the European association of professional cleaning machine and system manufacturers, EUnited Cleaning, of which Ghibli & Wirbel is also a member, the EUnited Cleaning Scrubber Dryer Performance Label is based on the technical specification TS 35000 and the international standard IEC / EN 62885-9. Through the use of a reproducible test comparing the cleaning performance of different machines, scrubber dryers with high cleaning efficiency and the lowest possible use of water and electricity are identified and subsequently labelled. The label is to be seen as a concrete commitment of the European professional cleaning machinery and systems industry in creating a sustainable future through a cleaner environment. The prerogative of the companies involved is the pursuit of the most effective and at the same time resource-efficient cleaning that can adapt to future energy needs.

LIFE CYCLE FOCUS

Ghibli & Wirbel continuously invests in the qualitative and environmental improvement of its fleet, consistent with the EU environmental policies on eco-design (Ecodesign Directive 2009/125/EC, implementing regulations and the 'new action plan for the circular economy. For a cleaner and more competitive Europe' - COM (2020) 98). A focus on all phases of a Ghibli & Wirbel machine's life cycle, from supplier selection to end-of-life.





STEP 1

SUPPLIERS AND RAW MATERIALS

Quality, Sustainability and Made in Italy are the core principles of Ghibli & Wirbel's procurement policy: a good percentage of suppliers (75%) have already adopted a quality (ISO 9001), environmental (ISO 14001) or occupational health and safety (ISO 45001) management system.

SUPPLY CHAIN

GREEN PRO FR 15 M 38 BC

Average distance * 148 km

* The average distance of the main machine components is estimated from the weighted average of supply distances, taking weight % into account

RAW MATERIALS

The raw material use policy at Ghibli & Wirbel is geared towards favouring sustainable production models, consistent with the 'sustainable consumption and production' target defined by the United Nations within the 2030 Sustainable Development Agenda. A sustainable model that emphasises: high-quality and durable raw materials, recycled materials for parts with secondary functions (e.g. packaging or recycled plastic parts), end-of-life recyclability of materials in view of the circular economy, **as required by the 'new action plan for the circular economy. For a cleaner and more competitive Europe'- COM (2020) 98.**

There have been many green initiatives undertaken in recent years, but one in particular has required exceptional effort. The company, in fact, has achieved the goal of: **introducing the use of recycled plastic in the production of its professional cleaning machines** and making sustainable products without renouncing the quality that has always distinguished G&W products.

The recycled polymer is derived from plastic waste, post-consumer waste (bottles, films, automotive scrap, battery cases, flasks and other containers) and post-industrial waste (from plastic processing plants) that is controlled and certified.

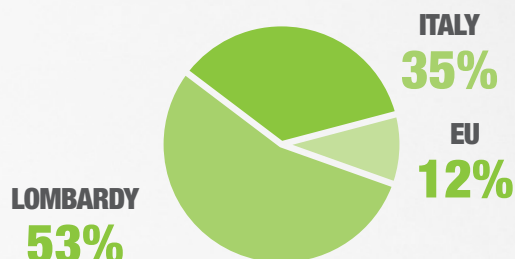
GREENPRO

designed by **ghibli & wirbel**

Designed by Ghibli & Wirbel, Green Pro is a complete range of machines with recycled plastics to meet all the needs of professionals. The cross-sectional and comprehensive offer demonstrates the company's focus on the needs of its customers. The main objective was to maintain the quality of the products and, for this reason, parts made from regenerated plastics were subjected to the same stress tests as traditional plastics. The amount of recycled plastic that has been used in the manufacture of these machines **exceeds 25%** and, for some components, **even reaches 100%**.

These features make the product compliant with the EU Green Deal COM (2019) 640 and the new action plan for the circular economy 'For a cleaner and more competitive Europe' -COM (2020) 98.

GEOGRAPHICAL DISTRIBUTION OF SUPPLIERS



GROSS WEIGHTS (KG) FOR COMPONENT TYPE

Electrical and electronic components	10.08 kg
Motors, electrical cables, electrical components	
Plastic	16.26 kg
Shell, tubes, standard accessories, packaging, etc.	
- Of which virgin plastic	13.38 kg
- Of which recycled plastic	2.88 kg
Aluminium	3.36 kg
Ferrous materials	11.92 kg
Frame, screws, and various components	
Batteries	22.68 kg
Paper and Cardboard	5.48 kg
Box, instruction booklet, etc.	
Pallet	10.92 kg
More	
Other raw materials below the minimum detection threshold	1.55 kg
GREEN PRO FR 15 M 38 BC	63.65 kg
(with batteries - without accessories and without packaging)	
GREEN PRO FR 15 M 38 BC	65.50 kg
(with batteries - with accessories and without packaging)	
GREEN PRO FR 15 M 38 BC	82.25 kg
(with batteries - with accessories and with packaging)	

MAIN MACHINE MATERIALS

(% BY WEIGHT)

28% BATTERIES

20% PLASTICS
OF WHICH 18% RECYCLED

14% FERROUS MATERIALS

13% PALLET

**12% ELECTRICAL AND
ELECTRONIC COMPONENTS**

7% PAPER AND CARDBOARD

4% ALUMINIUM

2% OTHER

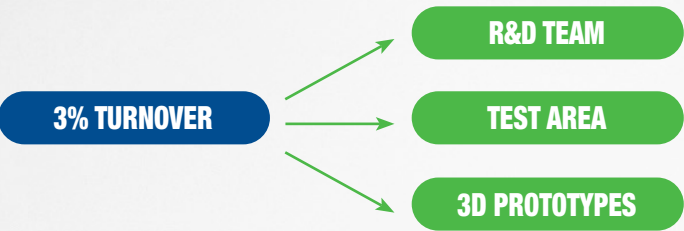


STEP 2
DESIGN

RESEARCH AND DEVELOPMENT

Quality and sustainability are the main objectives that Ghibli & Wirbel intends to pursue through its activities. Maintaining quality and sustainability is the reason why the company invests a substantial part of its resources in Research & Development every year. Our group of engineers, backed by cutting-edge technology, are constantly striving to perfect our current production and to plan tomorrow's. Innovative solutions are developed not only to continuously improve the functionality and ergonomics of Ghibli & Wirbel machines, but also to reduce noise, improve energy savings and make them more efficient, versatile and robust by using the most suitable materials and technologies. The entire production process is inspired by the best practices existing today to protect the environment. A 3D printer is also used to design and produce models of the machines produced by Ghibli & Wirbel.

INVESTMENT IN RESEARCH AND DEVELOPMENT



SCRUBBER-DRYER

A wide and complete range of state-of-the-art washer-dryers in ride-on and walk-behind versions. Seven models of machines dedicated to the cleaning of surfaces, from the smallest areas to large gathering spaces, designed with sustainability in mind and capable of meeting all the needs of professionals. The use of recycled plastic for the production of this type of machine represents an important investment that demonstrates Ghibli & Wirbel's concrete commitment to environmental protection issues. As highlighted by the acceptance tests and endurance tests during operation and transfer to which these eco-friendly machine versions are subjected, the entire range of scrubber-dryers guarantees the same performance as those produced without the use of recycled plastic.

GUARANTEED DURABILITY

The design principle of Ghibli & Wirbel machines is to extend product life and durability. Machines designed to work for longer guarantee efficient use of their materials and reduced environmental impact.

GREEN PRO FR 15 M 38 BC

AVERAGE BRUSH MOTOR LIFE HOURS

Internal test - machine in use
1600 to 1800*

AVERAGE SUCTION MOTOR LIFE HOURS

Internal test - machine in use
> 700*

*Self-declared data



STEP 2 DESIGN

ERGONOMICS

Ghibli & Wirbel's sustainable design is consistent with the basic principles of ergonomics, i.e. the efficient relationship between: machine, operator and cleaning environment.

The most important requirement for determining the level of ergonomics is safety, followed by adaptability, usability, comfort, pleasantness, comprehensibility. Sustainability that is not only environmental, but also social through Ghibli & Wirbel's special focus on the operators and users of clean facilities.

ACCESSIBILITY AND SAFETY



Ergonomic handle and fully height-adjustable thanks to the handle joint.



Rubber grips for better grip - better control and management of machine movements.



Quick-release 'no tool required' brush replacement system.



In the event of sudden and/or unforeseen obstacles, releasing the activation levers stops the machine.



Keys protected against the possibility of water splashes thanks to rubber protectors.

EASE OF USE AND EFFICIENCY



Three separate buttons allow immediate and intuitive operation of all machine functions.



Drain hose to facilitate emptying the tank.



Front wheel that allows easy height adjustment of the head, depending on the type of work surface. Perfect parking position as well.



The solution tank can be filled quickly thanks to the large filling 'mouth' and the practical filling hose supplied.



Easily removable recovery tank for easy transport, emptying and cleaning.



STEP 2 DESIGN

WIDE RANGE OF ACCESSORIES TO FACILITATE USE OF THE MACHINE IN ALL ENVIRONMENTS

The standard equipment designed by Ghibli & Wirbel for its machines is as complete as possible in terms of efficiency and economy to cope with the most common applications.

5 ACCESSORIES (in the standard configuration) to cover the main cleaning requirements.

STANDARD ACCESSORIES



FILLING HOSE

Extensible and equipped with universal coupling for all types of taps.



POLYPROPYLENE BRUSHES 0.7 MM

Resistant and suitable for every surface type, 385 mm (15") diameter and 0.7 mm diameter bristles.



SQUEEGEE BLADES IN POLYURETHANE

Suitable for all types of flooring highly resistant to wear and oil.



12V GEL BATTERIES

Set of two Gel 12V 25Ah batteries able to guarantee 1 h of autonomy.



ON BOARD CHARGER 24V 5A

It allows batteries to be conveniently recharged in different or distant locations, without having to return to the same place.



STEP 2 DESIGN

OPTIONAL ACCESSORIES

Ghibli & Wirbel's optional accessories allow even the most specific requirements to be met in a timely manner. In particular, the following optional accessories are available for the GREEN PRO FR 15 M 38 BC :



POLYPROPYLENE BRUSHES

Suitable for all types of surfaces, 385 mm (15") diameter, available with 0.5 mm and 0.9 mm bristles.



TYNEX GRIT 240 BRUSHES

Suitable for washing rough surfaces with stubborn dirt, available with a diameter of 385 mm (15") and 0.9 mm bristles.



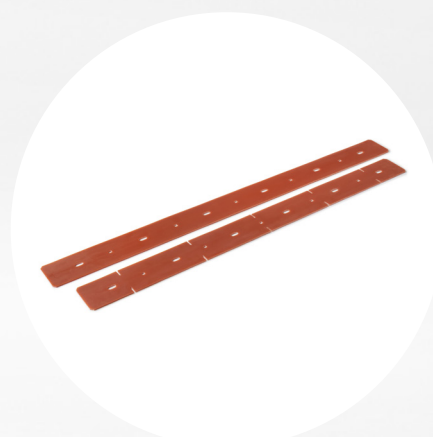
PAD HOLDER

Required to use the wide range of 15" pads available. Equipped with a practical quick coupling and release system.



SPLASH GUARDS

They avoid splashes of water and better protect the brush head and working environment.



SQUEEGEE BLADES

For best drying performance and highly resistant due to increased adaptability to the ground



STEP 3 PRODUCTION

The company, which has been ISO 9001 certified since 1995 (Quality Management System), strives to ensure a safe and healthy working environment and to be an environmentally responsible organisation. To this end, it has started the process of obtaining ISO 14001 (Environmental Management System Certification) and SA 8000 (Social Accountability) certification with the CSQ certification body. Ghibli & Wirbel is also committed to constantly reducing energy and water consumption, using less paper and fuel, reducing noise in all its forms, and keeping waste production as low as possible. The entire production process is inspired by the best practices existing today to protect the environment. In the year 2022, 91,580 Ghibli & Wirbel machines were produced. In 2023, a 750 kW photovoltaic system was installed at the production site to cover 50% of the company's electricity consumption needs, thus the company makes a contribution to climate mitigation as stipulated in Art. 12 of Regulation (EU) 2020/852.

100% of the machines are tested with an end-of-line test that verifies the functionality of the product. In addition to this testing, there is a quality audit based on a statistical check in which the various characteristics are rechecked. The machines are designed and manufactured in such a way as to favour the longest possible service life and the recycling at end-of-life* of the various materials of which they are composed.

GHIBLI & WIRBEL

Ghibli & Wirbel, the brand that was born from the merging of two Italian excellences in professional cleaning, promotes the values of Italian entrepreneurship, passion for work and the quality of Made in Italy unaltered.

The products are designed and manufactured entirely in the production plant in Dorno (Pavia).

To gain complete control over its production cycle, Ghibli & Wirbel manufactures most of the components of the machines it assembles in-house. Each mould is the result of meticulous prototyping. Production is carried out on injection moulding machines. Processing is carried out on automatic moulding lines: a complete cycle that leaves only the last stage of inspection to specialised personnel. Ghibli & Wirbel operates production lines divided by product:

- 2 lines for the assembly of vacuum cleaners, dry-wet vacuum cleaners and spray-extraction cleaners
- 1 assembly line for industrial vacuum cleaners
- 1 single disc machine assembly line
- 4 assembly lines for scrubber-dryers
- 1 assembly line for other product families





STEP 4 USE PHASE

GENERAL SPECIFICATIONS		
Manufacturer	Ghibli & Wirbel Spa - Via Enrico Fermi, 43 – Verona (VR)	
Place of manufacture	Dorno (PV) - Italy	
Function	Walk-behind scrubber-dryer	
Rated power (W)	510	●
Suction motor power (W)	250	●
Brush motor power (W)	260	●
Washing track (cm)	38,5	●
Suction width (cm)	45	●
Hourly output (theoretical - practical) (m²/h)	1540 - 920	●
Weight (kg)	63,65	●
ENERGY EFFICIENCY		
Energy consumption per m² (Wh/m²)	0,39 *	●
CO ₂ EMISSIONS		
CO ₂ emissions per m² (gCO ₂ /m²)	0,13***	●
NOISE		
Sound power (dB)	78,4 **	●
Sound pressure [dB(A)]	65 **	●
WATER EFFICIENCY		
Tank (l)	15	●
Water consumption - range (l/min)	from 0 to 0.50	●
BATTERIES		
Type (gel/lithium)	Gel	
Capacity (Ah)	25	●
Charging times (h)	5****	●
Life cycles (No. of recharges)	> 450*****	●
Autonomy (min)	100	●

* This figure is the result of tests conducted in-house by Ghibli & Wirbel. If you have any questions, please contact G&W directly.

** Complies with the Machinery Directive 2006/42/EC

*** Considering only the use phase and thus the energy consumed per square metre (Emission Factor).

**** With 30-amp charger (with fully discharged batteries)

***** According to IEC 254-1

Each dot corresponds to the accreditation level of the data:

● Self-declared ● External laboratory test ● Declared by supplier



STEP 5

MAINTENANCE

The maintenance plan* of the machines guarantees high operating efficiencies and high performance qualities over time, which means reduced consumption and, consequently, reduced environmental impacts generated by machine use.

Ghibli & Wirbel recommends that regular maintenance work be carried out in strict accordance with the 'Use and Maintenance' booklet*. Where possible, pick specialised and authorised companies and record work in the periodic maintenance booklet. In the maintenance booklet, the coupons and interventions carried out on the machines must be recorded and initialled. It is a tool for keeping your fleet under control and for demonstrating to your customers that regular interventions have been carried out. Attention to the customer and to the quality of the cleaning service provided can also be demonstrated by keeping cleaning machines and equipment in full working order.

For the validation and justification of interventions Ghibli & Wirbel suggests you use the logbook provided on the last page of this EU Green Sheet. You can detach it and file it in your site documentation.

Scheduled maintenance diagrams are shown below. The indicated frequencies may vary depending on particular working conditions, to be defined by the maintenance manager.

SCHEDULED MAINTENANCE DIAGRAM

PROCEDURE	DAILY after the machine is used	WEEKLY	PERIODIC
Clean water tank cleaning	●		
Cleaning the recovery water tank	●		
Removal and cleaning of squeegee unit	●		
Brush cleaning	●		
Clean water filter cleaning		●	
Brush replacement			●
Replacing squeegee blades			●
Squeegee incidence adjustment			●
Fuse replacement			●

*This procedure is in line with the 'new action plan for the circular economy. For a cleaner and more competitive Europe'- COM (2020) 98.





STEP 6

END OF LIFE AND TIPS FOR PROPER DISPOSAL

Environmentally friendly design also pays attention to end-of-life management, although Ghibli & Wirbel machines are designed for an extended life cycle*. In line with the 'new action plan for the circular economy. For a cleaner and more competitive Europe' - COM (2020) 98 the principles of disassembly and recyclability are applied and guaranteed.

The machines are designed and manufactured in such a way as to favour the longest possible service life and the recycling at end-of-life* of the various materials of which they are composed.

END-OF-LIFE MACHINE DISPOSAL MODE

The materials are all recyclable*, although some parts of the machinery will have to be disposed of as special waste due to their specific function of use. Different materials must be easily separable. Parts subject to wear, damage or malfunctioning must be removable and replaceable. Plastic parts must be marked with the coding of the type of polymer they are made of according to DIN 7728 and 16780 and UNI EN ISO 1043/1.

PACKAGING DISPOSAL METHODS

Corrugated cardboard packaging complies with European Directive 94/62 EC on packaging and packaging waste. Corrugated cardboard is 100% recyclable and must be disposed of according to the separate collection procedures established by the local authority.

As far as plastic film is concerned, it too complies with the requirements of the European Packaging and Packaging Waste Directive 94/62/EC. Plastic packaging should be delivered in accordance with the separate collection procedures established by the local authority.

On the other hand, the tertiary packaging (pallets) used for transporting the machines are taken back by a specialised company and reused, thus avoiding the generation of waste.

WASTEWATER DISPOSAL METHODS

Waste water produced by machine operations must be disposed of according to the type of solution produced in a manner consistent with industry standards.

DISPOSAL OF CONSUMABLES

Wear parts such as brushes, squeegees, wheels, etc. are removable and replaceable*. They must also be disposed of at the end of their life in accordance with environmental regulations. Those authorised for periodic maintenance will be properly informed and trained on how best to handle them.

* This is in line with the 'new action plan for the circular economy. For a cleaner and more competitive Europe' - COM (2020) 98.





STEP 7 RECYCLING

The policy on the use of raw materials is geared towards favouring production models consistent with Goal 12 - **Ensure sustainable production and consumption patterns** - defined by the United Nations 2030 Agenda.

A sustainable pattern that promotes: high quality and durable raw materials, recycled materials (e.g. packaging and recycled plastic parts of machines), end-of-life recyclability of materials in a circular economy perspective.



Attention is paid to all stages of the life cycle of a Ghibli & Wirbel machine, from the selection of raw material suppliers and components to the end of the product's life.

Following the introduction of recycled plastic in this process, the focus on the production cycle has increased further. Ghibli & Wirbel's main objective, to manufacture more sustainable machines, was only achieved when it was possible to **guarantee the same quality as the products in the standard range**. Numerous tests were carried out to verify and certify that the recycled plastic components of the various machines meet the technical requirements and guarantee excellent performance.

All plastics used are recyclable and are marked to make the type of plastic present immediately recognisable and facilitate recycling.

Most production waste is reprocessed and used to make new components and accessories.



RESPECT FOR THE ENVIRONMENT

by reducing the use of virgin plastic in favour of recycled.



REDUCTION OF WASTE

thanks to the greater care that is taken in production and, more generally, in the entire product life cycle.





GHIBLI & WIRBEL FLEET MAINTENANCE LOG*

[illegible]

* This procedure not only contributes to the proper functioning of the machines used but is also consistent with the principles of the 'new action plan for the circular economy. For a cleaner and more competitive Europe'- COM (2020) 98.

**If on board



RESOURCES

Ghibli & Wirbel makes available on its website (www.ghibliwirbel.com) and on its My G&W reserved area all machine-specific documentation, including this EU Green Sheet.

- Machine brochure
- Data sheet
- Use and maintenance
- Use and maintenance - illustrations
- EC Declaration of Conformity
- Warnings and safety
- Wiring diagram
- Troubleshooting

CONTACT

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ghibli & wirbel

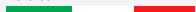
Professional Cleaning Machines Since 1968



GoinGreen

Ghibli & Wirbel Sustainable Vision

100% MADE IN ITALY



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ISO 9001

