



SELF.YC



SELF.Y: I'm here to help you, by your side

Cleaning today has to face new challenges not only related to performance and technological innovation, but also aimed at improving the quality of people's work. All this in full compliance with environmental sustainability. From this philosophy comes SELF.Y, the new cleaning concept that contains Comac's expertise gained in 50 years of designing in the world of floor scrubbers combined with the most innovative technologies in the industry. SELF.Y has been designed to be a collaborative and intelligent cleaning partner that combines performance and productivity to take cleaning operations to the next level.



Designed to adapt to the facilities where it is used, SELF.Y has all the necessary features to offer autonomous and professional cleaning in environments such as airports, shopping centers, supermarkets, educational institutes, office buildings, conference centers, healthcare facilities, warehouses and distribution centers.

SELF.Y adapts,
it is not the spaces
that adapt to SELF.Y



With an estimated productivity of 1700 sqm/h, if there is a large and spacious surface to clean, SELF.Y is the perfect solution that allows you to optimize the processes and workflows of the people dedicated to the facility management.

It's time to get more out of a floor scrubber!

SELF.Y is more than a floor scrubber. It has been designed to be your new smart collaborative cleaning partner that integrates seamlessly into your dedicated premises maintenance team, giving more value to your time. In fact, SELF.Y works in complete autonomy and safety to offer you maximum cleaning performance with minimal supervision. But the real strength of SELF.Y lies in its simplicity of use: it does not require specific training or dedicated infrastructure to be operational, thus allowing you to start working immediately and without complications.



GIVE MORE VALUE TO TIME

SELF.Y will work autonomously, so the operator can devote time to non-repetitive and more valuable activities.



CONSISTENT RESULTS

SELF.Y will always follow the programmed cleaning path, or calculate the best one, thus guaranteeing consistent and extremely reliable cleaning results.



THE MORE YOU USE SELF.Y, THE MORE YOU SAVE

The labour cost increasingly affects cleaning costs, but with SELF.Y you don't have to worry about this aspect. You can increase cleaning frequency and productivity while reducing operating costs and payback period.



PROVED CLEAN

SELF.Y is an inexhaustible source of data that transforms into useful information to control and prove cleaning operations.

All the intelligence of SELF.Y at the service of effortless cleaning

- **Simple to set up**, even for less experienced users. You can teach your SELF.Y the tasks even if you don't have coding skills.
- **Inherently safe** as it has been designed for an extremely serene collaboration between man and machine.
- **Detailed mapping**. SELF.Y autonomously creates a map of the environment, inserting all the obstacles it may encounter during its work while optimizing the most effective cleaning path.
- **Immediately ready to automate cleaning operations**. You can immediately use SELF.Y while it intelligently maps the area to be cleaned, so you don't have to wait for a specialized technician to start up.
- **SELF.Y adapts in real time to the environment**, to changes in its route and to obstacles or people who may be on its cleaning path.
- **Touch screen display** to make all the SELF.Y functions available to you.



White light

manual mode

Green light

recording mode

The LED lights make it easy to grasp SELF.Y's operational mode

All it takes is a quick glance to keep SELF.Y's operating mode under control. Thanks to its LED lights of different colors, SELF.Y communicates its status clearly and immediately. This intuitive system not only simplifies interaction with SELF.Y but also enables effective and rapid monitoring of its activities, reducing the time needed for oversight and enhancing the efficiency of cleaning operations.



Blue light

autonomous mode



Yellow light

SELF.Y needs you



Red light

SELF.Y gives you a
buzzer warning

Simple and efficient

SELF.Y adapts to your needs. You can simply choose to use it in two different autonomous working modes: Learn & Repeat and Perimeter. They are both so intuitive that they do not require any specific training for set up. This makes SELF.Y a valuable and accessible ally for every type of user, ensuring maximum operational efficiency effortlessly.



LEARN & REPEAT:

you use SELF.Y by teaching it the cleaning path, then it will repeat it for you



PERIMETER:

you walk the perimeter of the area with SELF.Y which analyzes the environment and autonomously calculates the best cleaning route.



MANUAL:

but you can also choose to use SELF.Y freely, like a standard floor scrubber. To offer you the maximum flexibility in any situation.

Tailored TASKS: shape your own cleaning schedule with SELF.Y

The cleaning schedule of an environment is always evolving, especially when dealing with large surfaces. That's why you can assign TASKS to SELF.Y, which are missions that allow you to fully customize the cleaning operations. Each TASK is associated with a TASK marker that allows you to customize cleaning according to three variants:

- **Cleaning mode:** within the same area and the same path, you can choose between setting the standard cleaning mode or ECO Mode based on your specific needs.
- **Type of cleaning route:** you can set multiple routes for SELF.Y within the same cleaning area to customize the TASK based on the times or days of the week you want it to work.
- **Type of environment:** if SELF.Y works in heterogeneous environments, you can customize the TASK characteristics based on specific needs. For example, you can choose to differentiate by area, distinguishing from the entrance or the refreshment area of a company or shopping mall.

TASK: Cleaning mode



TASK: Type of cleaning route



TASK: Type of environment



Take advantage of the full potential of TASK markers for customized cleaning

Using TASK codes is extremely simple! Each TASK is linked to a specific code. All you need to do is place SELF.Y in front of the code to allow it to scan and associate it with the TASK. Then, simply press the start button, and use SELF.Y in your desired mode to enable it to memorize the TASK for future repetitions.

To fully leverage the potential of TASK markers, you can choose to:

- Use **a TASK marker for each type of environment** to differentiate the cleaning schedule based on the areas within the same building. This allows you to tailor cleaning operations to the specific needs of each environment, optimizing efficiency and results.
- Use **multiple TASK markers for each environment but with different cleaning routes**. This enables you to adjust cleaning operations according to the specific requirements of the environment where SELF.Y operates. For example, if only a portion of the environment requires daily cleaning or needs to be excluded at certain times of the day, you can use separate markers to set the main TASK and partial ones.
- Use **multiple TASK markers for each environment but with different cleaning modes**. For the same area, you can associate one TASK marker with maintenance cleaning and another TASK code with cleaning in ECO Mode, allowing you to manage cleaning operations with maximum flexibility.



The power of data: with SELF.Y, cleaning is demonstrable

SELF.Y allows you to maintain constant control and a clear view of cleaning operations. The collected data is converted into meaningful information that ensures operational transparency and provides a solid basis for evaluating and demonstrating the effectiveness of the cleaning process. From the SELF.Y display, you can immediately access information about each individual TASK, such as:

- Map
- Activity duration
- Average speed
- Remaining time
- Activity progress
- Covered area
- Cleaned area
- Path length
- Solution used
- Battery used
- Detected obstacles



Manage SELF.Y, wherever you are!

Thanks to Comac Fleet Care you can communicate with SELF.Y, collect data and transform it into significant and useful information to manage cleaning operations. With CFC you can control SELF.Y anywhere and at any time to save money, increase safety, improve performance and monitor consumption.

Union makes safety

With SELF.Y, Comac is committed to raising the standard of safety in the world of professional cleaning. This is because the main objective of SELF.Y is to offer you stress-free cleaning thanks to a high-tech multisensory system. It is precisely the union of data and information collected by the sensors installed that allow you to monitor the working environment and increase safety. In fact, SELF.Y leverages the Sensor Fusion process, a multi-sensor technology that consistently gathers data for processing, resulting in a precise and accurate analysis of its working environment. The advantage is a comprehensive vision, enabling SELF.Y to adapt in a targeted and intelligent manner, ensuring safe operation.



SELF.Y NEVER STOPS LEARNING AND HAS A COMPLETE PERCEPTION OF THE ENVIRONMENT

The technologies embedded in SELF.Y enable it to persistently gather and process information from the environment, enhancing its adaptability and integration. This is because SELF.Y has been integrated with technology that combines perception of the environment, ensuring optimal performance and safety.



3D CAMERAS:

an advanced obstacle avoidance system

LiDAR SENSOR:

for accurately mapping the environment to increase safety

ULTRASONIC SENSORS:

to detect various surface types, including transparent ones like glass and plexiglass

CLIFF SENSORS

to prevent accidental falls due to changes in height

Cleaning for here, there and everywhere

SELF.Y is extremely flexible to allow you to take cleaning everywhere. It doesn't need to be connected to the Wi-Fi network to work, so you can use it anywhere, even in the basement. Furthermore, the ease of configuration and its compactness allow SELF.Y to be managed by several people and on many work sites. You can clean new spaces at any time, the intervention of specialized personnel is not necessary for the configuration, you will only have to choose the working mode and SELF.Y will be ready, everywhere.



Excellent navigation

SELF.Y is compact, incredibly agile and extremely graceful in its movements to best adapt to the surrounding environment.

No limits to cleaning freedom

With SELF.Y, cleaning freedom knows no bounds. This innovative cleaning companion is not confined to specific locations for storage and recharging, allowing you to have maximum flexibility in use. It is equipped with onboard battery-charger for convenient recharging wherever there is a power outlet. Its portability makes it suitable for cleaning in any environment, ensuring impeccable results wherever its intervention is required.



Intelligent and sustainable cleaning

Like all Comac machines, SELF.Y can also be an integral part of your sustainable initiatives. Choosing to use SELF.Y allows you to increase awareness of your cleaning operations, and the related consumption. You will be able to reduce waste as there will no longer be double passes on the same surface, and homogeneous cleaning will allow you to work constantly on light dirt.



ECO MODE

When you use SELF.Y in ECO Mode, you reduce water consumption, decrease detergent usage, and lower brush pressure. Resources are thus optimized to minimize waste and noise level, making SELF.Y suitable for performing silent operations that aim to save energy and increase work autonomy.



Stop&Go

When SELF.Y stops temporarily, thanks to the Stop&Go system, functions are automatically paused to optimize consumption and reduce waste.



Lithium batteries

The lithium-ion technology of the SELF.Y battery allows it to offer great autonomy and work up to 3 hours on a single charge and without interruptions.



STANDARD EQUIPMENTS	SELF.Y
Comfort	•
Eco Mode	•
Display touch-screen	•
CFC Cellular	•
Squeegee rubber blades usable on 4 sides	•
Color-coded parts for easy maintenance	•
Hour meter	•
Solution level indicator	•
Light indicators and acoustic buzzer	•
On-board battery charger	•
Automatic lifting of the brush base and squeegee	•
Safety	•
Ignition key	•
Emergency stop	•
3D Cameras	•
LiDAR sensor	•
Ultrasonic sensors	•
Cliff sensors	•

CHARACTERIZING ELEMENTS	SELF.Y
Round shape design to easily avoid obstacles without damage or accidents	•
Complies with IEC 63327 safety standards	•
Easy localization	•
Save time with mapping while you clean	•
Saves up to 999 different TASKS	•

TECHNICAL DESCRIPTION	SELF.Y
Solution tank	l 40
Recovery tank	l 40
Voltage and nominal power	V/W 24/1122
Working width	mm 570
Squeegee width	mm 630
Working capacity up to (theoretical – 3 Km/h)	m ² /h 1710
Working capacity up to (real – 2,5 Km/h)	m ² /h 1425
Disc brush Ø	(n.) mm (3) 194
Brush pressure	Kg 15
Brush motor	(n.) V/W (3) 24/130
Brush revolution	rpm 170
Vacuum motor	V/W 24/422
Suction vacuum	mbar 180
Traction	- aut.
Traction motor	V/W (2) 24/450
Forward speed	Km/h 3
Batteries	V/Ah C5 lithium 24V/100Ah
Autonomy	h 4
Machine dimensions (L x h x l)	mm 735x1100x680
Machine weight (GVW)	Kg 240
Sound pressure level (ISO 11201)	dB (A) 65