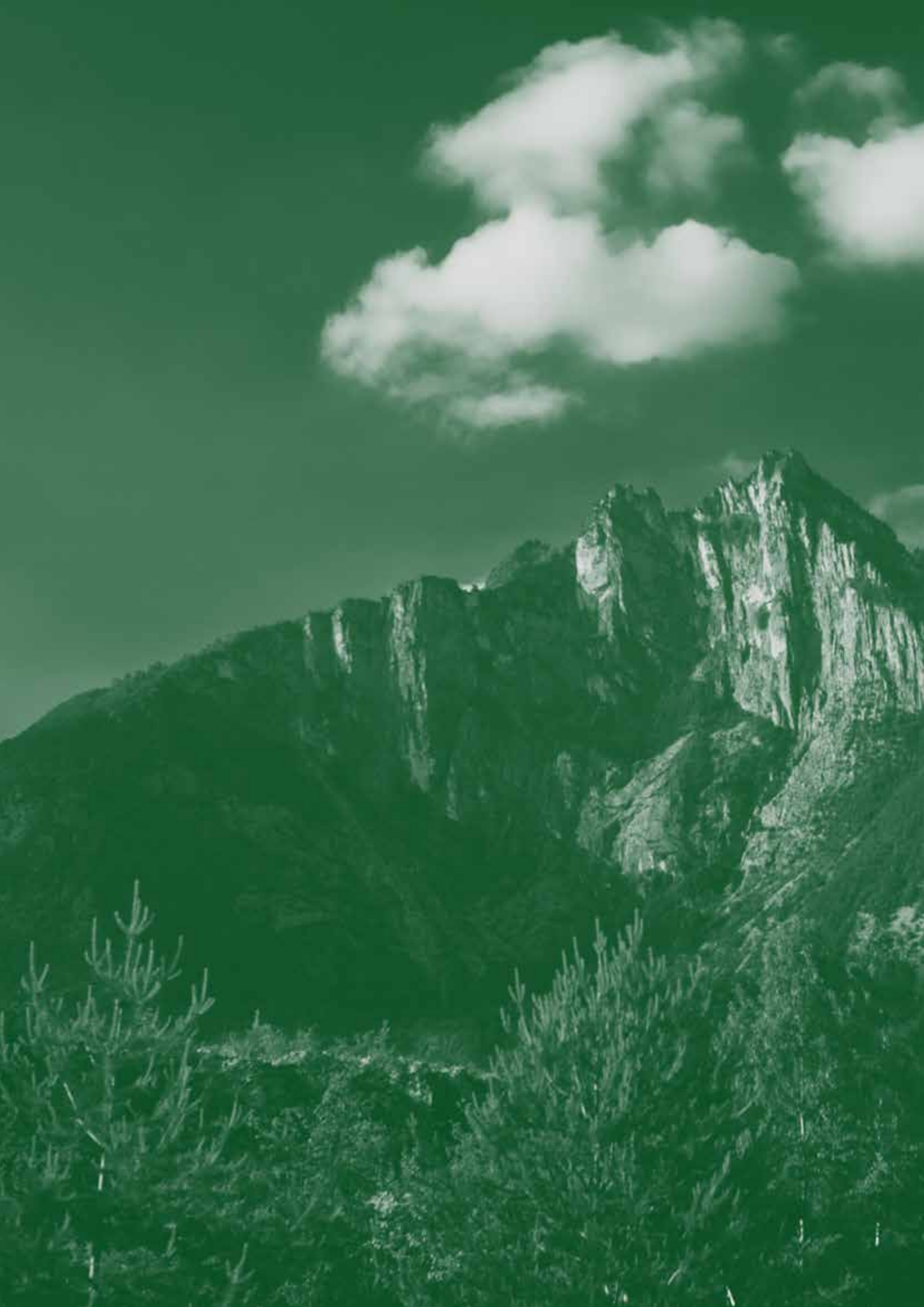


**HIGH-SPIN
WASHING MACHINES**

 **grandimpianti**
intelligent laundry equipment

SUPER FAST,
SUPER SMART





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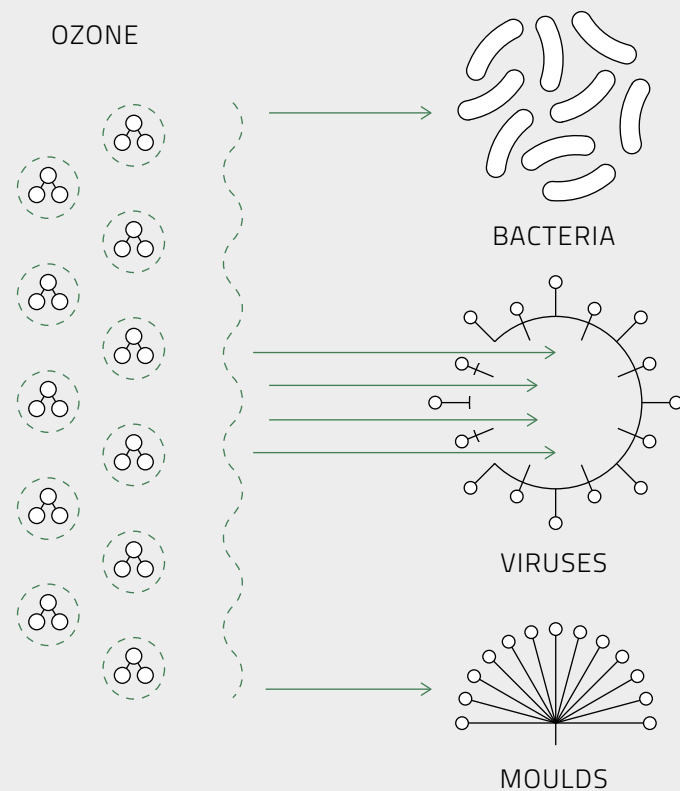
OZONE READY

SANITIZING IS EASY, FAST AND IMMEDIATELY AVAILABLE THANKS TO THE O₃ READY TECHNOLOGY

Connecting a GWH washing machine to the GO3 ozone generator is quick and simple: all our machines are natively prepared to be equipped with the ozone dosing system and connected to the generator, without any mechanical-structural problem. The high quality and the endurance of plastic and rubber parts, indeed, guarantee maximum efficiency and durability. The lightweight and space-saving GO3 generator transforms the oxygen in the air into ozone and enters it, via an injector, directly into the washing machine.

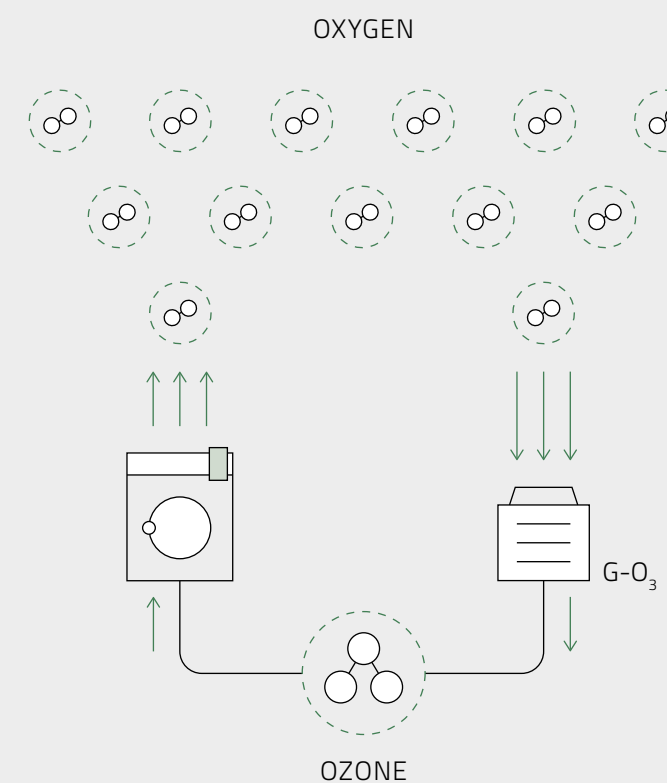
THE OZONE'S BENEFITS: SAVINGS WHILE YOU SANITIZE, TAKE CARE OF FABRICS AND PROTECT THE ENVIRONMENT

Totally environmentally friendly and natural, the positive effects of ozone go beyond the high sanitizing power. This gas, indeed, is active at low temperatures (over 35 degrees it decays) and, thanks to its oxidizing and detangling action reduces the amount of detergent required and avoids the necessity of softeners. Finally, especially if it used in the last rinse, it also simplifies the following drying and ironing phases.



THE OZONE'S FORCE: INACTIVES AND DESTROYS VIRUSES, MOLD AND BACTERIA

Ozone – a natural gas with a strong disinfectant power – when in contact with organic elements becomes pure oxygen and works by breaking them up. Until now, it's one of **the most effective washing methods against bacteria, molds, viruses and fungi**. In the specific case of viruses, it acts directly on the lipid membrane that covers them, make them inactive.



SANITIZED LAUNDRY UP TO 99.98%, WITHOUT ANY CHEMICAL ADDITIVES

Ozone washing system is effective, ecological and circular: it eliminates, indeed, bacteria, viruses and molds up to 99.98%. But, because it's a rather unstable molecule, the ozone cannot be stored, so it must be produced at the moment of use. The production is quick and easy: you need just oxygen and electric discharges. At the end of the process, then, it doesn't need particular drains, since it's simple oxygen.

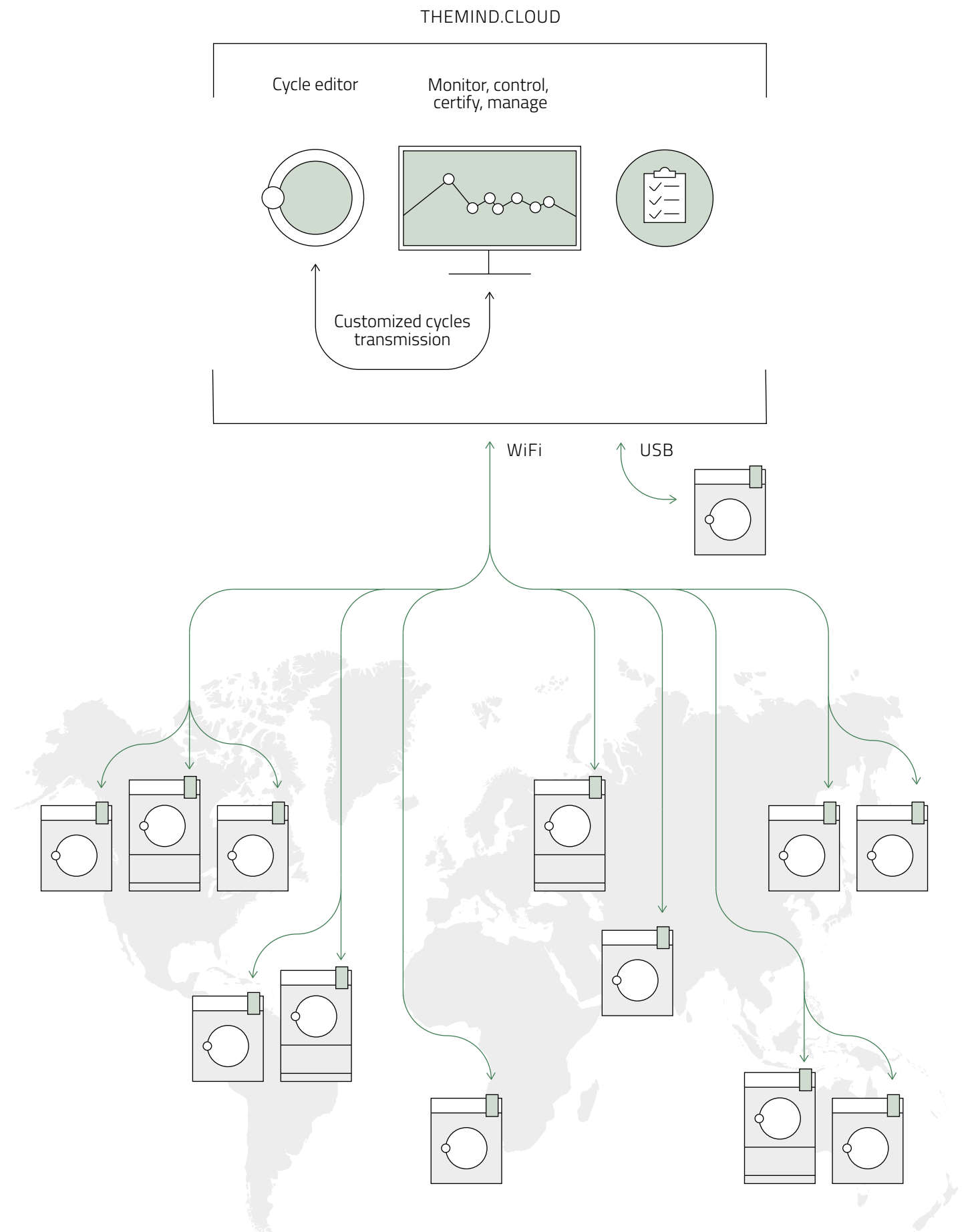
AN ADVANCED,
SYNERGIC AND
SMART SYSTEM,
THAT SIMPLIFIES
AND ENHANCES
THE LAUNDRY
WORK

 grandimpianti
intelligent laundry equipment



THE INTELLIGENCE BEHIND THE SCREEN

Virtually entering your laundry room at any time, wherever you are and with different devices is not only finally possible, but also simple. You can monitor the entire business, track and modify cycles, prices, and offers, check the alarms, create new users or change the settings of one or more facilities around the world, without moving, without any obstacle or limitation, in just a few minutes. There are no more constraints, bureaucracy or emergencies, which can slow down or stop your business: everything can be managed remotely, thanks to the Wi-Fi connection and the constant communication between the Wavy control system and the clever platform TheMind.cloud.



WAVY & THEMIND.CLOUD: TWO RARE MINDS

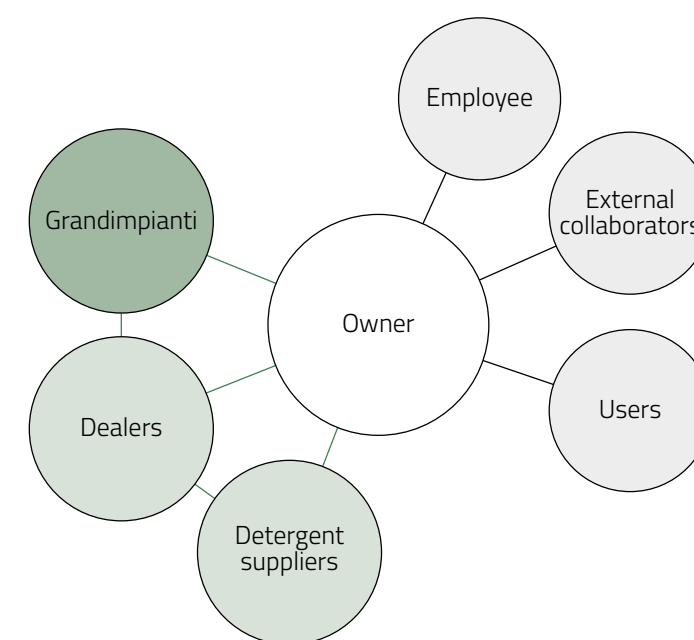
Managing, monitoring, tracking: these are just some of the strengths of our integrated system. The laundry activity is more efficient thanks to the **batch tracking**: personal data, cycles, individual customer needs are filed, tracked and managed avoiding oversights or impromptu solutions (e.g. sticky notes attached on the machine). **Operator tracking**, on the other hand, records the activity of different users to completely control the entire process and reduce the chance of error. Lastly, the **process certification**, a function that keeps track of all the different washing phases (temperatures included), confirms that the equipment has actually performed a certain cycle at a precise temperature: a crucial factor in terms of safety and hygiene.



THE TECHNOLOGICAL SYSTEM WITH A HUMAN TOUCH

Wavy and TheMind use a simple, intuitive and contemporary language that exploits the communicative immediacy of icons and adapt itself to the type of user. The information available, indeed, are directly related to the level of knowledge, while the interaction methods, both of the platform and the machine, are managed hierarchically.

The system provides **5 different access levels** (each of them can be duplicated and customized) to ensure maximum flexibility in the monitoring, control, maintenance and use of machines and facilities.



A FLEXIBLE AND SHARED APPROACH

There are, indeed, many players potentially involved and, each of them, with different needs: employees, collaborators end users (e.g. in self-service laundries), maintenance workers, detergent suppliers, dealers, etc.

INTELLIGENCE BEYOND THE TOUCH

Much more than a simple 7" vertical display, Wavy is an advanced control system, available in **36 languages** and characterized by a step-by-step approach, modulated on the actual user experience. The interface with icons, easy and intuitive, allows a complete management of the machine, while the **native Wi-Fi** enables to remotely receive programs, cycles and settings, as well as to send information about the machine operation and status.



A SIMPLE TOUCH ALLOWS YOU TO

- Create different level of accesses for any user
- View events and alarms
- Track processes, operators and batches
- Set cycles, water dosage and detergents, prices
- Create/Customize phases and cycles
- Consult the manual on board: using Wavy as an e-reader
- Save data via USB (standard) or send them via Wi-Fi



SUPERIOR INTELLIGENCE

The remote control and management platform is available in 36 languages, accessible from various devices (PC, Tablet and Mobile) and characterized by two distinct but strongly interlinked "souls": the Monitoring & Management System and the Cycle Editor. Two entities that work together and constantly interact with the machine to ensure the efficiency and optimization of the entire system.



THE MONITORING & MANAGEMENT SYSTEM ALLOWS YOU TO

- Monitor in real time operating parameters and synoptic
- Receive e-mail alerts in case of malfunctions
- Create virtual laundry facilities by taking machines from your warehouse
- Track processes, users and batches
- Analyze statistical data (cycles, consumption, etc.)
- Change the machine setup
- Update the FW with one click
- Download the data locally on a storage device

CYCLE EDITOR ALLOWS YOU TO

- Create and send custom cycles to the connected machines
- Modify existing cycles remotely
- Transfer the cycles from a machine to another via Wi-Fi or save them in the cloud
- Define sales prices for your services (in case of self-service laundry)
- Create cycle libraries available online for customers, anytime and anywhere
- Save the cycles created locally on a portable device and then load them into the machine via the standard USB port

THE ADVANTAGES OF A SMART SYSTEM

- You have maximum control and performance, optimizing your movements and time (no unnecessary travel, no limitations)
- You can anticipate routine maintenance avoiding the downtime and the loss of efficiency
- You can better organize your work as well as the activities of your internal and external collaborators
- You can optimize your business by monitoring the real use of the equipment (no over or under used machines)



MAIN



EVENTS



DETAILS



REPORTS



STATISTICS



PARAMETERS

PROFESSIONAL WASHING MACHINES EVEN MORE INTELLIGENT

Technology, ergonomics, safety and functionality, work together to ensure high performance, reduced consumption, time savings and low environmental impact.



QUALITY STARTS WITH MATERIALS

In our high-spin washing machines we use superior quality materials to avoid corrosion, reduce limescale deposits, ensure high waterproofness and a longer life of the components.

AISI304
for basket and tank.

EPDM® rubber for
the water inlet pipes.

INCOLOY® anti-
limescale steel for
the electric resistors.

VITON® high
temperature rubber
for the sealing ring.

Cast iron for
bearing seats and
counterweight.



ERGONOMICS WITHOUT SIZE LIMITS



We wanted to simplify the work in the laundry and make it less hard, that's why we worked on the ergonomics by carefully defining every aspect of our machines such as:

Extra-large porthole (from 330 to 540 mm) for a quick loading and unloading of the laundry.

Door opening up to 180° for simplify the use of the laundry trolley.

7" display always visible and easily usable with gloves.

Simplified inspection and maintenance due to the access only from the front and rear of the machine.

Screen position, inclination and orientation.





SAFETY IN EVERY PHASE

Our washing machines have double and redundant safety devices like airplanes: automatic magnetothermic switch, isolation transformer, door lock with redundant sensors, safety pressure switch and numerous other sensors, all connected to the safety card powered at low voltage (24Vac).

The protection of health and safety and the prevention of accident factors at the workplace.

The proper functioning of the equipment everywhere and under all circumstances.

Constant monitoring of the water level and the basket operation.

No cases of electromagnetic interference with equipment nearby.

The protection of components from abnormal absorption and surges voltage.

SUSTAINABILITY IS A MATTER OF DETAILS

The presence of the patented dynamic DWS (GWH 80-280) and manual MWS (GWH 350-600) weighing systems, a large 3" motorized drain valve under the tank (without any connecting pipes) and an intelligent water mixing system with triple input (hot, fresh and hard water), allows us to:

Save more than 50% of the detergents.

Use less detergent thanks to the possibility of loading soft water which is less calcareous.

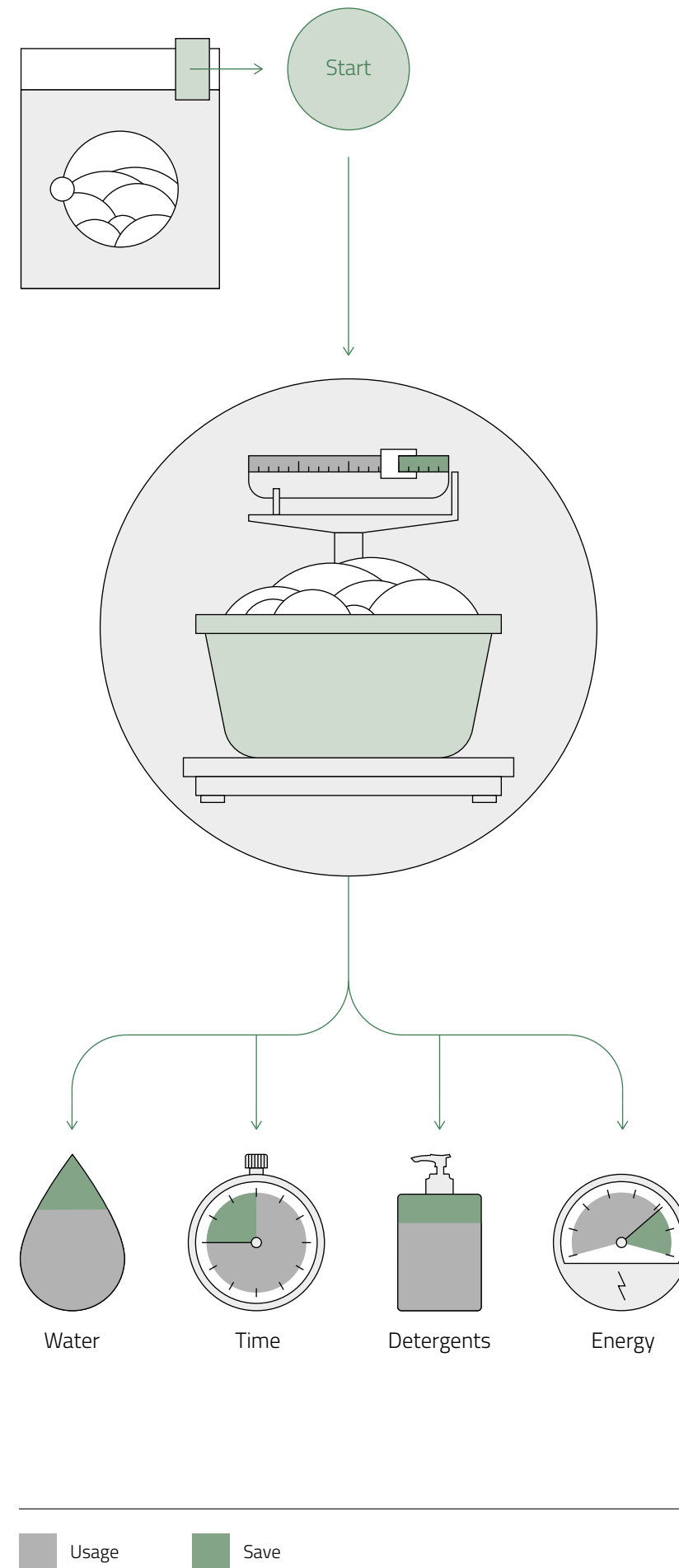
Limit the waste (no deposits of water and detergent in pipes or internal connections).

Get better washing performance.

Reduce process times (quick discharge, no need to heat the water because it's served by the water supply network).

Up to 96% recyclability rate thanks to the materials (e.g. skinplate) and the accurate design.

It helps you to increase the productivity by optimizing the time in the intermediate stages.



Load 100% 70% 50%

GWH 80	DWS		
Water per cycle (lt)	71.1	49.5	35.5
Power consumption (kWh)	1.563	1.158	0.888
Cycle length (min)	55	50	45
Detergents	100%	70%	50%

GWH 105	DWS		
Water per cycle (lt)	85.9	60.2	43
Power consumption (kWh)	2.332	1.578	1.188
Cycle length (min)	55	51	46
Detergents	100%	70%	50%

GWH 135	DWS		
Water per cycle (lt)	116.2	81.4	58.1
Power consumption (kWh)	3.125	1.998	1.488
Cycle length (min)	56	50	47
Detergents	100%	70%	50%

GWH 180	DWS		
Water per cycle (lt)	154	110.7	90
Power consumption (kWh)	5.168	3.166	2.232
Cycle length (min)	56	50	46
Detergents	100%	70%	50%

GWH 240	DWS		
Water per cycle (lt)	205.5	154	115
Power consumption (kWh)	6.450	3.713	2.713
Cycle length (min)	58	51	49
Detergents	100%	70%	50%

GWH 280	DWS		
Water per cycle (lt)	245	172	142.5
Power consumption (kWh)	7.847	4.459	3.246
Cycle length (min)	60	52	50
Detergents	100%	70%	50%

GWH 350	MWS		
Water per cycle (lt)	378	210.6	151
Power consumption (kWh)	8.080	5.255	4.848
Cycle length (min)	55	50	46
Detergents	100%	70%	50%

GWH 450	MWS		
Water per cycle (lt)	486	347	246
Power consumption (kWh)	13.800	6.644	5.234
Cycle length (min)	57	51	49
Detergents	100%	70%	50%

GWH 600	MWS		
Water per cycle (lt)	648	419	301
Power consumption (kWh)	14.550	7.063	5.354
Cycle length (min)	60	55	52
Detergents	100%	70%	50%

MAINTENANCE IS AT AN ALL TIME LOW

Limiting the components' wear by extending their life means significantly reducing maintenance works. That's why:

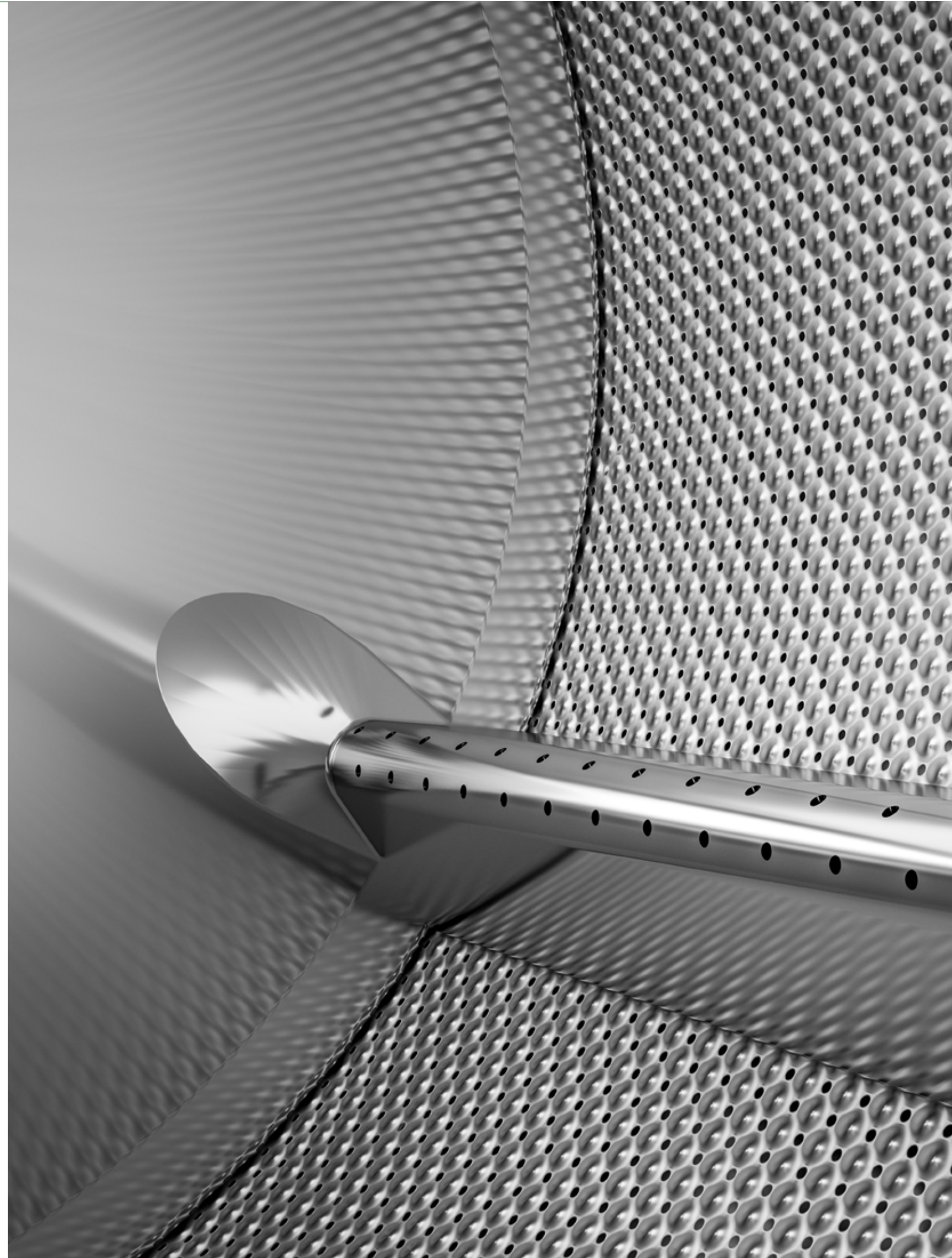
We only use high quality materials.

Our electrical and electronic components are boxed (no humidity, dust and heat damages).

We use a special water slowdown system for the spin-cycle: the water, while coming inside for the next phase, it reduces the speed of spin-cycle and also the time requires for the intermediate steps, without any mechanical consequences.

We provide for continuous lubrication of the bearing seats.

The 3D imbalance detection sensor prevents the extreme movements and preserves the durability of the moving elements.



MACHINES READY TO GO EVERYWHERE!



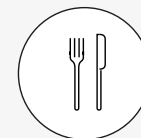
We've always been opened to the world and to the needs of our customers that now, more than ever, they ask us for **speed, connectivity** and **convenience**. For this reason we've developed versatile and innovative equipment, ready for different environments, sectors and geographical areas, able to make the job faster, easier and more effective.



PROFESSIONAL
LAUNDRY



NURSING
HOMES



CATERING SERVICE
& RESTAURANT



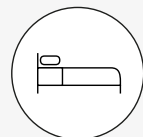
INDUSTRIAL
LAUNDRY



KNITTING
& TEXTILE
INDUSTRY



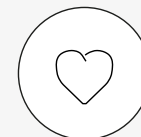
MULTI-HOUSING
LAUNDRY



HOSPITALITY
INDUSTRY



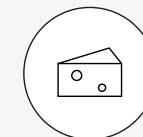
SELF-SERVICE
LAUNDRY



HEALTH CARE
SECTOR



PHARMACEUTICAL
INDUSTRY



FOOD
INDUSTRY

INTELLIGENCE TO THE NTH DEGREE



In their highest configuration, these washing machines allow to process up to 420 kg of laundry per day (7 cycles in 8 hours). The structure is particularly strong and suitable for intensive work, the engine, positioned at the bottom, keeps the center of gravity close to the floor reducing vibrations and noise. The inverter technology, finally, allows gradual starts and slowdowns while preserving the linen and the mechanical elements.



LARGE SIDE DISPENSER WITH 5 COMPARTMENTS FOR POWDER OR LIQUID DETERGENTS, WITH AN OPENING SENSOR: MAXIMUM SAFETY FOR THE USERS

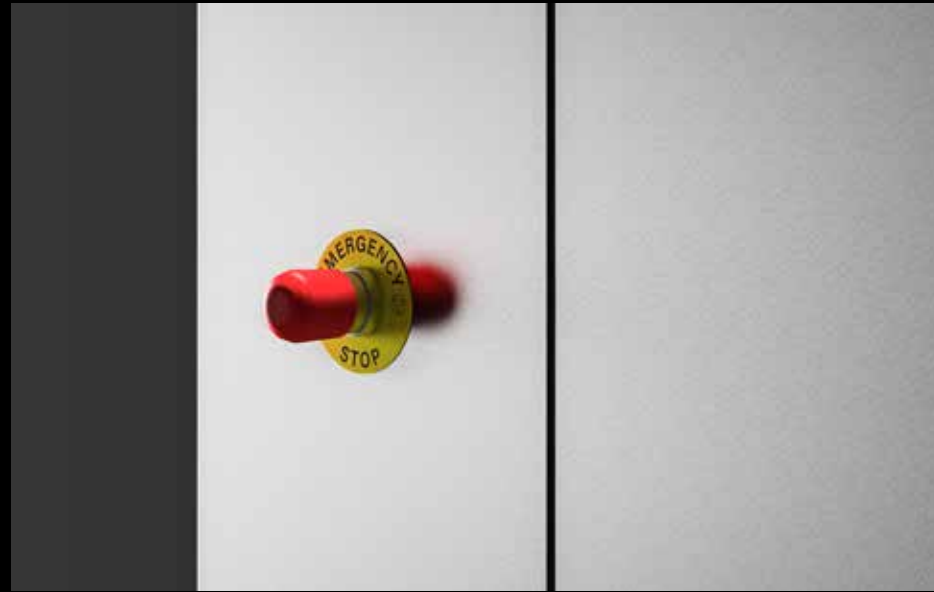


THREE 1" WATER INLETS GUARANTEES AN ULTRA-FAST INDUSTRIAL LOAD

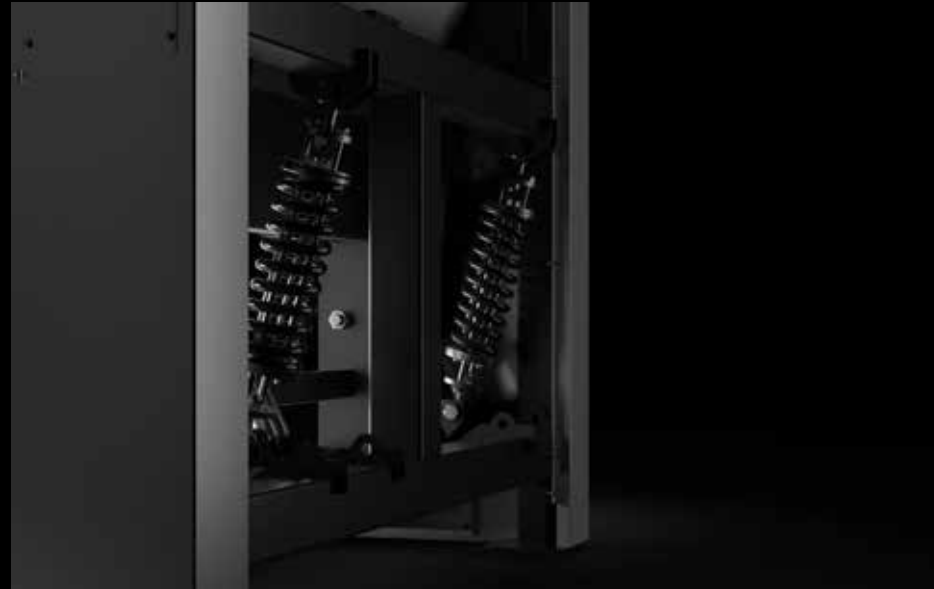
MWS WEIGHING SYSTEM: OPTIMIZES ENERGY, WATER AND DETERGENTS CONSUMPTION BASED ON THE INDICATED LOAD

EXTRACTION SYSTEM OF BEARING SEATS WITHOUT REMOVING THE BASKET

3D SENSOR FOR SPIN CYCLE MANAGEMENT: PREVENTS UNBALANCING AND AVOID MECHANICAL STRESS



STANDARD MANUAL
EMERGENCY BUTTON



TANK AND BASKET ARE
HOOKED ON MECHANICAL
SHOCK ABSORBERS
ATTACHED TO THE FRAME:
MAXIMUM STABILITY
AND LOW VIBRATIONS



LOWER COUNTERWEIGHT
FOR ENSURING GREATER
STABILITY IN THE SPIN
CYCLE



EASY REMOVABLE CAST
IRON BEARING SEAT WITH
EXTERNAL LUBRICATION:
LONG COMPONENTS LIFE



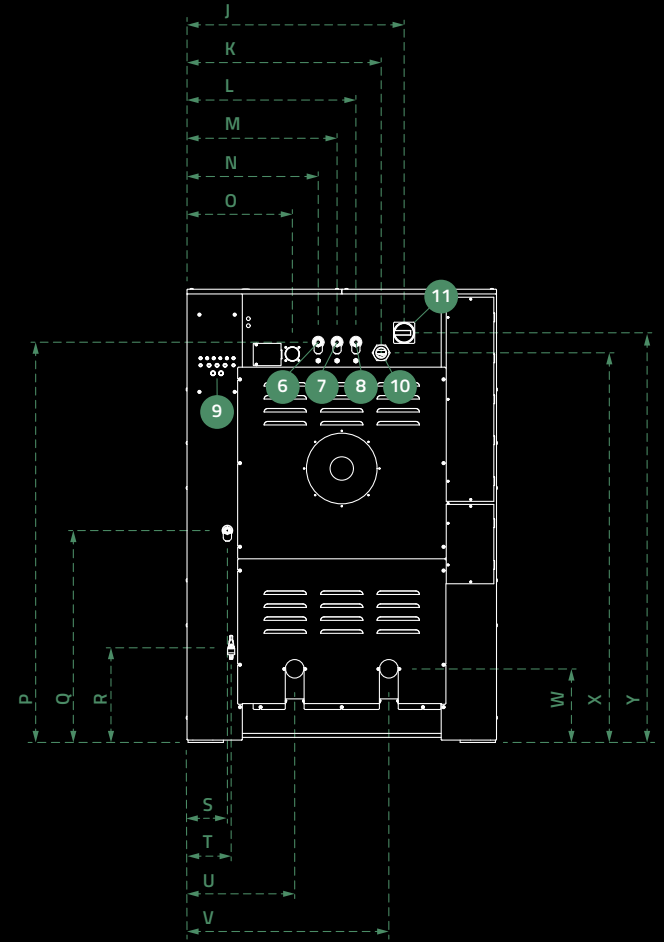
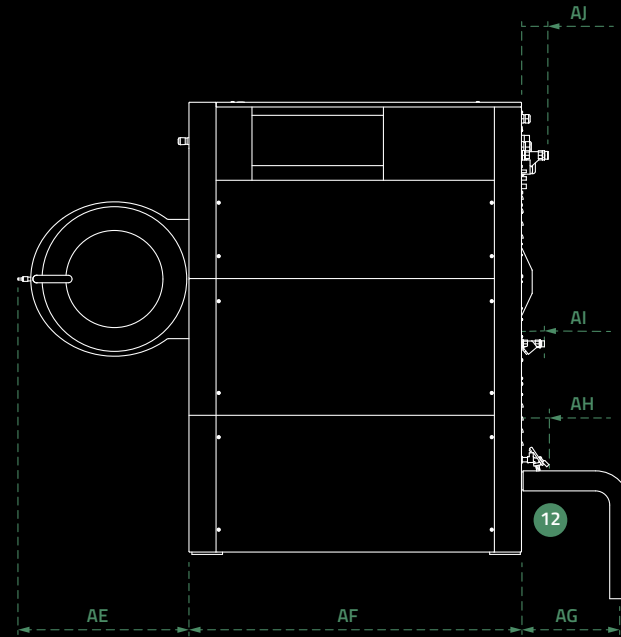
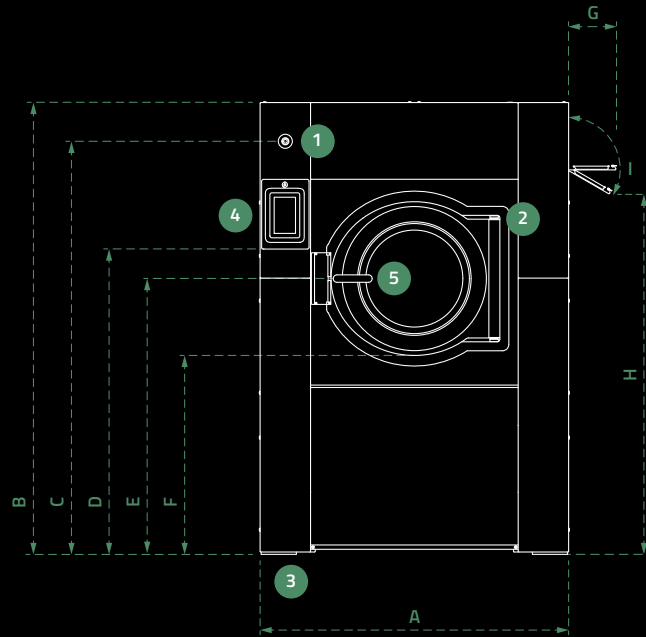
TRIPLE TRANSMISSION
BELT WITH MECHANICAL
TENSIONING SYSTEM



WATER CONSUMPTION
OPTIMIZATION THANKS
TO THE INDEPENDENT
MANAGEMENT OF THE
DOUBLE VALVE

TECHNICAL FEATURES

1	Emergency button
2	Porthole hinge
3	Feet
4	Dashboard
5	Handle
6	Soft water connection
7	Hard water connection
8	Hot water connection
9	Soap connection
10	Electrical connection
11	Disconnecter
12	Drain (3")



	GWH 350	GWH 450	GWH 600
Capacity ratio 1:10 kg*	35	45	60
Capacity ratio 1:9 kg*	38	50	66
Weighing system	Manual MWS	Manual MWS	Manual MWS
Mechanical and electronic imbalance control	Yes	Yes	Yes
Spin (rpm) / G Factor	839 / 360	839 / 360	788 / 360
Noise level (dB)	< 75	< 75	< 75
Control	Wavy	Wavy	Wavy
Payment systems	No	No	No
Heating power (kW)	24	36	36 / 54
Motor power (kW)	4	7.5	7.5
Electric power supply	380 / 400 / 415 / 440 / 460 / 480 V 3~ 50/60 Hz		
Net/Gross weight (kg)	1010	1350	1500
Dynamic floor loading (kN/Hz)	10.59 ± 3.28	14.13 ± 3.73	15.89 ± 4.97
Porthole diameter (mm)	540	540	540
Drum volume (dm³)	350	450	600
Drum perforation	Around 8%	Around 8%	Around 8%
Programs number	No limits	No limits	No limits
UR percentage	47÷50%	47÷50%	47÷50%

	GWH 350	GWH 450	GWH 600
A — Width	1315	1315	1315
B — Height	1925	1925	1925
C	1760	1760	1760
D	1300	1300	1300
E	1176	1176	1176
F	848	848	848
G	205	205	205
H	1465	1465	1465
I	150°	150°	150°
AE	726	726	726
AF — Depth	1182	1412	1412
AG	410	410	410
AH	120	120	120
AI	200	200	200
AJ	113	113	113
J	923	923	923
K	825	825	825
L	718	718	718
M	638	638	638
N	558	558	558
O	448	448	448
P	1700	1700	1700
Q	900	900	900
R	402	402	402
S	172	172	172
T	188	188	188
U	458	458	458
V	858	858	858
W	312	312	312
X	1655	1655	1655
Y	1735	1735	1735

INTELLIGENCE AT FULL SPEED

Six versions available (from 75 to 280 liters) characterized by great functionality, design, ergonomics and innovative technology able to ensure high energy savings, flexibility, minimum wear and great performance.

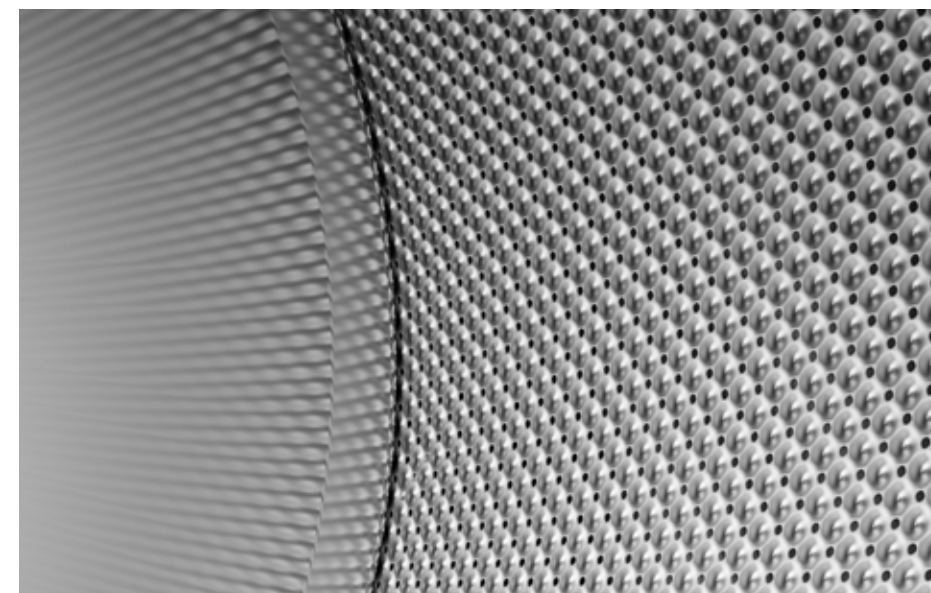




ERGONOMIC
4-COMPARTMENT
DISPENSER



CONTEMPORARY
DESIGN WITH GLOSSY
FRONTS AND
ROUNDED PROFILES



THE BASKET WITH
HEMISPHERES ENSURES
A GENTLE TOUCH ON
FABRICS



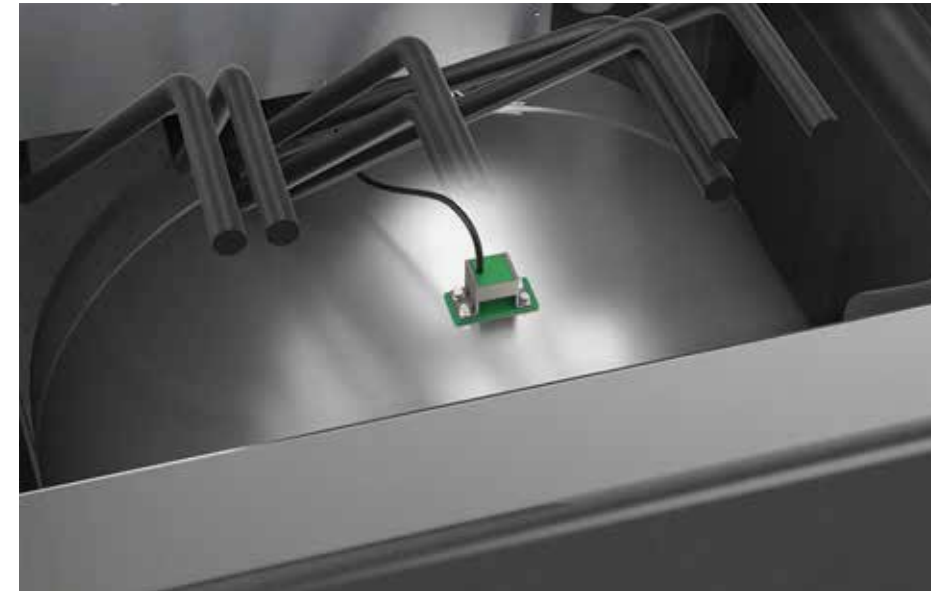
ERGONOMIC KNOB:
A SLIGHT ROTATION
IS ENOUGH TO OPEN
THE DOOR



POWERFUL ENGINE
ABLE TO GENERATE
UP TO 400G OF
CENTRIFUGAL FORCE



SPRINGS AND SHOCK
ABSORBERS REDUCE
GROUND VIBRATIONS
AND NOISE DURING
THE SPIN CYCLE WHILE
THE 3" DRAIN VALVE,
PLACED ON THE FRONT,
SIMPLIFIES MAINTENANCE
OPERATIONS



3D SENSOR FOR
MANAGING AND
PREVENTING THE
UNBALANCING



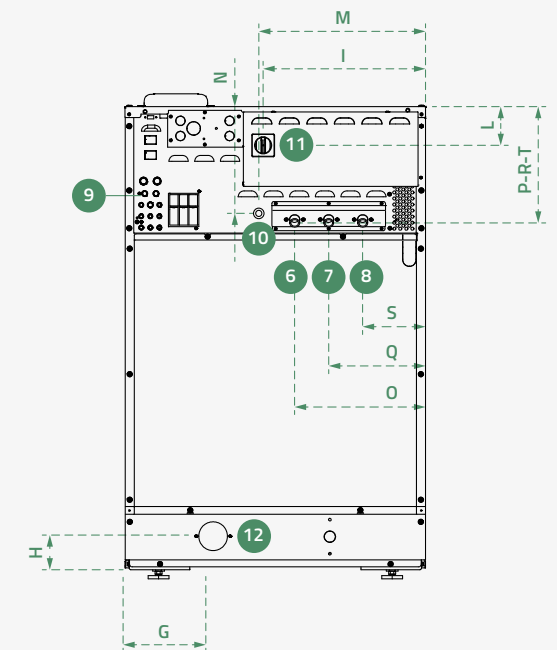
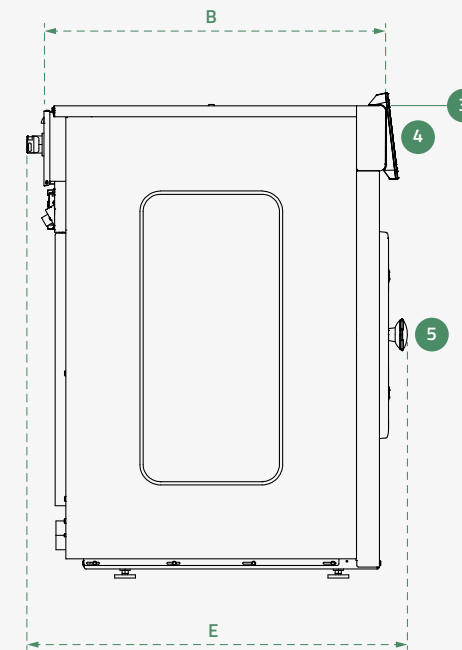
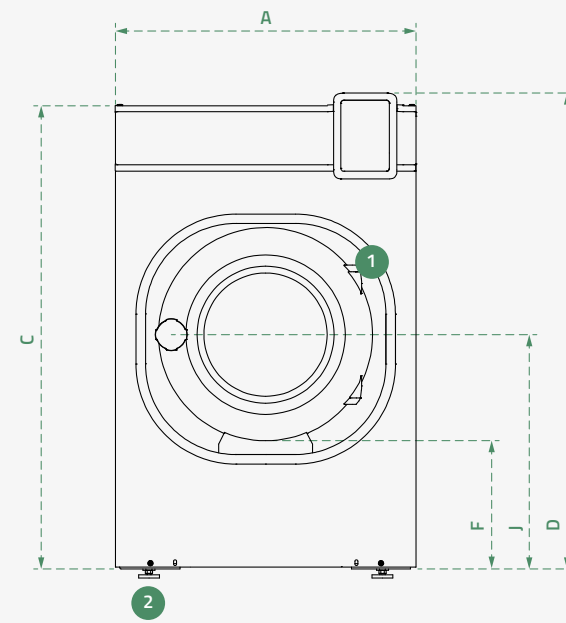
EMERGENCY BUTTON
FUNCTION INTEGRATED
IN THE SAFETY CARD



13 INPUTS MIXER:
MIXES WATER AND
DETERGENTS BEFORE
GET IN CONTACT WITH
THE CLOTHING

TECHNICAL FEATURES

1	Porthole hinge
2	Feet
3	Aesthetic angle closure
4	Dashboard
5	Handle
6	Soft water connection
7	Hard water connection
8	Hot water connection
9	Soap connection
10	Electrical connection
11	Disconnecter
12	Drain (3")



	GWH 80	GWH 105	GWH 135	GWH 180	GWH 240	GWH 280
Capacity ratio 1:10 kg*	4 ÷ 8	5.3 ÷ 10.5	6.75 ÷ 13.5	9 ÷ 18	12 ÷ 24	14 ÷ 28
Capacity ratio 1:9 kg*	4.5 ÷ 9	6 ÷ 12	7.5 ÷ 15	10 ÷ 20	13.5 ÷ 27	16 ÷ 32
Weighing system	Dynamic DWS	Dynamic DWS	Dynamic DWS	Dynamic DWS	Dynamic DWS	Dynamic DWS
Mechanical and electronic imbalance control	Yes	Yes	Yes	Yes	Yes	Yes
Spin (rpm) / G Factor	1165 / 400	1075 / 400	1075 / 400	980 / 400	980 / 400	915 / 350
Noise level (dB)	<65	<65	<65	<65	<65	<65
Control	Wavy	Wavy	Wavy	Wavy	Wavy	Wavy
Payment systems	Mechanical coin meter / Electronic coin meter / Central payment unit / Other systems on request					
Heating power (kW)	6/9	6/9/12	9/12	12/18	18	22
Motor power (kW)	1.14	1.66	2.37	3.36	4.6	4.6
Electric power supply	220-240V 1~ 50/60Hz 230-240V 3~50/60Hz 380-415V 3N 50/60Hz 440V-480V 3~ 60Hz		220-240V 3~50/60Hz 380-415V 3N 50/60Hz 440V-480V 3~ 60Hz			
Net/Gross weight (kg)	190 / 205	215 / 240	260 / 280	385 / 400	435 / 455	475 / 520
Dynamic floor loading (kN/Hz)	1.9±0.5/19.4	2.2±0.5/17.9	2.7±0.5/17.9	4.0±0.7/16.3	4.6±1.1/16.3	5.0±1.1/15.25
Porthole diameter (mm)	330	410	410	460	460	460
Drum volume (dm³)	75	105	135	180	240	280
Drum perforation	Around 8%	Around 8%	Around 8%	Around 8%	Around 8%	Around 8%
Programs number	No limits	No limits	No limits	No limits	No limits	No limits
UR percentage	43÷47%	43÷47%	43÷47%	43÷47%	43÷47%	47÷50%

	GWH 80	GWH 105	GWH 135	GWH 180	GWH 240	GWH 280
A — Width	795	795	795	970	970	970
B — Depth	763	763	903	970	1081	1228
C — Height	1225	1225	1225	1432	1432	1432
D	1259	1259	1259	1465	1465	1465
E	862/1270	865/1355	1005/1492	1060/1628	1129/1695	1275/1810
F	350	344	344	477	477	477
J	582	620	620	777	777	777
G	258	257	230	270	270	270
H	92	92	92	110	110	110
I	430	430	430	430	430	430
L	103	103	103	103	103	103
M	442	442	442	400	400	400
N	282	282	282	275	275	275
O	336	336	336	62	62	62
P	290	290	290	105	105	105
Q	246	246	246	150	150	150
R	290	290	290	130	130	130
S	156	156	156	238	238	238
T	290	290	290	155	155	155

PROFESSIONAL TEXTILE CARE SINCE 1972

Our products – from the professional equipment for small self-service laundries to the bigger industrial machines – are characterized by maximum reliability, high quality, durability, low consumption and reduced maintenance costs.

Our company has been working in the laundry industry since 1972, producing of a full range of machines and equipment for wet cleaning, drying, ironing and the general treatment of linen.

Within a district of mechanical processing excellence, we have been able to take advantage of the high specialization and professionalism achieved by some local companies, assigning them the realization of some components but managing directly the R&D, the design, the assembly and the quality control. Since our foundation we have always paid great attention to innovation, design, ergonomics and maximum energy efficiency.



1972

The journey in the professional laundry sector begins.

1984

Here comes the electromechanical timer tailored for the laundry.

1997

The innovative skinplate enters in the laundry industry.

1998

The new ironers with the anodized extruded aluminum plate are born.

1999

Installation, first on the market, of an electronic temperature control board on ironers.

2001

The CE (electronic control) replaces the traditional timer on the washing machine.

2002

Development of G900 keyboard programmable laundry control.

2007

DWS (dynamic weighing system) is born. Development of G400, G400M and G400DRY controls.

2008

Creation of the Drying Diagram.

2012

GUIDO, G4-Wiz and G-Wiz controls arrive on the market.

2013

Green Excellence Award. Reddot Design Award.



2016

Wavy and the IOT enter the laundry world.

2017

The new user friendly interface Wavy wins the Smart Lable and the Reddot Awards.



2020

ISO45001 certification on occupational health and safety management systems.

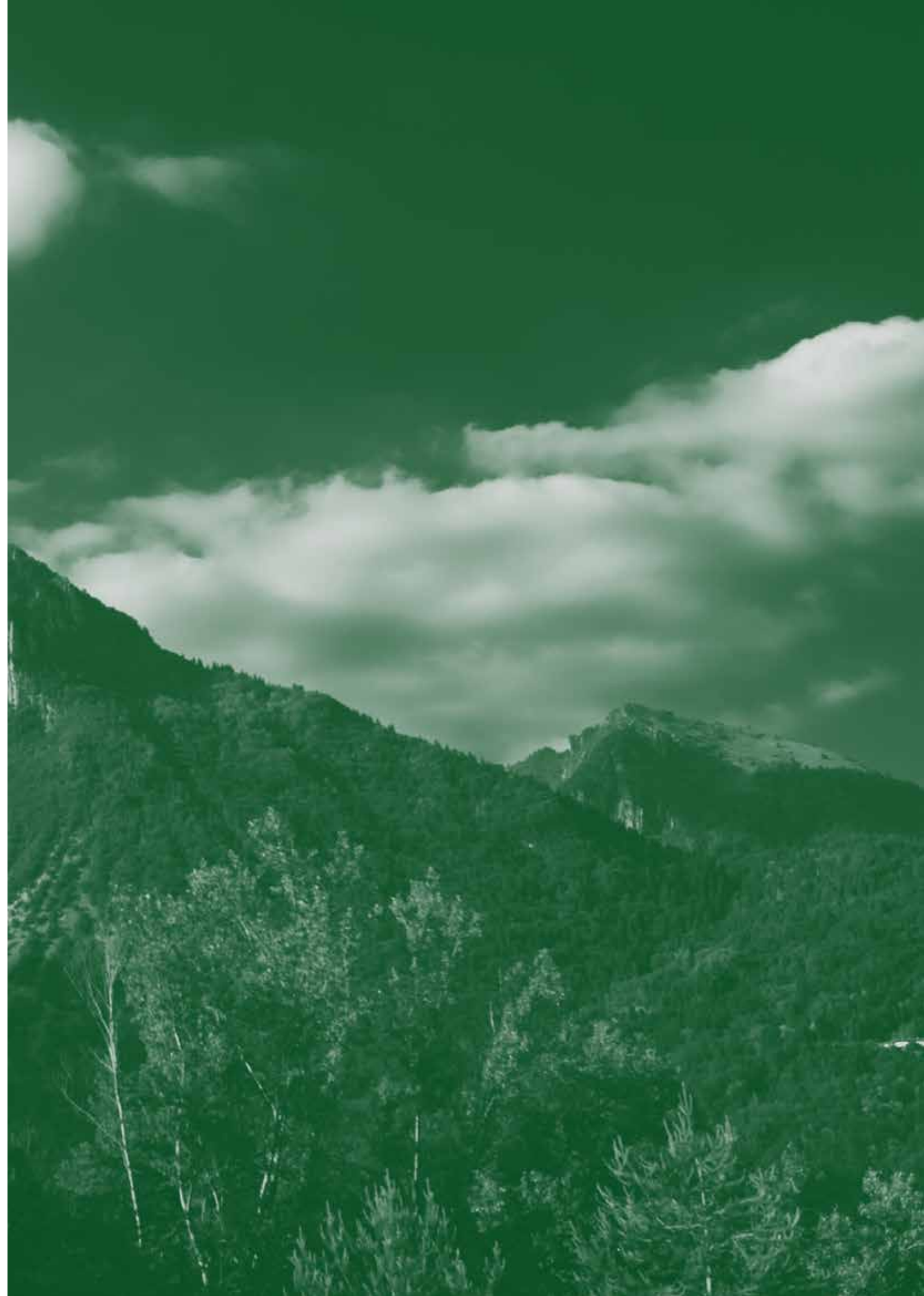


COMPANY WITH
MANAGEMENT SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =
= ISO 14001 =
= ISO 45001 =

Grandimpianti I.L.E — Aligroup S.r.l. a Socio Unico SEDE LEGALE

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