







WALK BEHIND SCRUBBER DRYER

721\$N58

This model is a further step forward in the development of dual brush models thanks to the innovative "Klinmak single-motor power unit", now able to operate both the four toothed brushes and the suction turbine. This solution allows both an incredible reduction in power consumption and a considerable increase in silence (in Eco = 64.6 dbA).

The significant energy savings have made it possible to use a lithium-ion battery (Li-Ion) capable of guaranteeing significant advantages in operating autonomy, charging times, as well as a very low environmental impact. The power used, which is visible on the display together with the residual runtime, is quite low (max. 390W). The Trion 5070 scrubber dryer is intended for cleaning surfaces from 1,000 to 2,000 sq.m. Its energy consumption (ratio of power consumption to hourly yield) is the lowest in the cleaning market (0.14 W/sq.m.).

Trion 5070 is an innovative, high performance, low power consumption, continuous cycle, easy to use, and maintenance-free scrubber dryer.













Superior cleaning performance









• Front brush head washing system with four brushes

Guarantees excellent, uniform cleaning on various types of surfaces and greatly increases the quality of washing compared to scrubber dryers with a single brush. The high brush speed (340 rpm)

The centered head also allows the maalso contributes to better cleaning results.

The centered head also allows the machine's use in both directions.

2 Heavy-duty brush head (30 kg)

Trion can thus be used for deep, intermediate and maintenance cleaning. The squeegee can also be lifted for deep cleaning, held in place by magnets.

3 3-stage turbine and squeegee behind the brushes

This combination ensures perfect drying on every surface, especially in corners.

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Easy to use

4 Simple control panel

Two simple buttons control all the functions of the scrubber dryer. One button adjusts the amount of washing solution (from 0 to 2 l/min) by displaying its value; the typical waste of manual taps is avoided. A second button simultaneously activates the washing and suction functions. A display detects the battery state, cumulative runtime (in hours). The left button allows selecting between two use modes (Eco-Max), displaying the power absorbed during operation and the residual runtime before charging is necessary. **The board is already prepared for the detergent dosing system.**



Total Power Consumption





Water adjustment button from 0.3 to 2 l/min. The same button also allows draining the solution tank.



Eco / Max Power / Off mode selection button and % detergent selection



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Residual runtime and hour counter



5 Squeegee lifting

Pedal squeegee lifting



6 Tank in tank system

The tank has an optical level indicator. The recovery tank has a wide opening for cleaning and inspection. The tanks lack any edges or areas where contaminated water could stagnate. Utmost hygiene!



2 large wheels (250 mm) and 2 for parking and transport

Easy to move on smooth and rough surfaces.

The two rear wheels make it easy to park the machine, and all four wheels together facilitate loading and unloading water



Eco-sustainable production









Toothed brushes: extremely high energy efficiency and cleaning (KlinMak patent)

The toothed brushes (KlinMak patent) make it possible to use a single gearmotor, simplifying transmission and reducing the overall cost. Moreover, they increase energy efficiency, thereby increasing the scrubber dryer's runtime. The use of a single motor greatly improves the machine's energy efficiency and greatly reduces the sound level it produces, since the machine lacks an electric motor for the turbine. This greatly increases runtime and simplifies maintenance. The two-brush system greatly facilitates the scrubber dryer's traction. The use of an Li-lon battery significantly reduces the weight and volume of the machine, and therefore substantially reduces the production of industrial waste.

Single electric motor; no electric motor needed for the turbine. Very low noise

Its energy consumption (ratio of power consumption to hourly yield) is the lowest in the cleaning market (0.14 W/sq.m., in Eco mode).

The sound pressure level (noise) in the operator's ear is quite low, at 64.6 dbA in

Trion is setting new standards in professional cleaning, following the sustainability logic indicated by the UN in point 12.5 of the Sustainable Development Goals.





Li-lon battery with BMS.

with traditional batteries.

increased runtime up to 16 h/day



Ultra-high productivity and incredibly low maintenance costs

There are innumerable advantages to using lithium-ion batteries (Li-NCA): lightness, small size, no memory effect, low self-discharge rate, much higher charge cycles (1,000) than traditional AGM or Gel batteries, and above all the possibility of being able to count on very low charging times. The battery charger with double setting is offered as standard: 5/8A. The advanced BMS (single-cell control system) entirely designed in Italy manages the battery's operation, transmitting its parameters to the main board of the machine and storing infinite data. Start-up is through a special bistable button located next to the battery charging socket. The use of Li-lon batteries allows the machine to be used **up to 16 hours a day**, an unthinkable amount of time

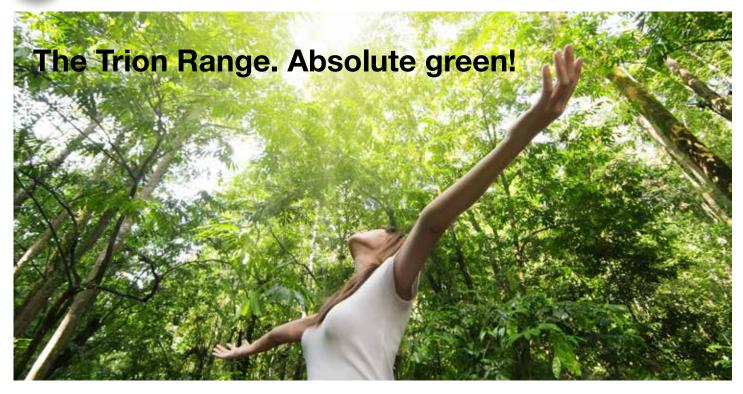
Trion optimizes consumption and operating costs. Eco mode (ideal on hard surfaces such as ceramic, marble and the like) further reduces consumption and noise levels. All routine maintenance tasks, such as cleaning and replacing the squeegee rubber, cleaning the clean-water filter, and replacing the brushes are simple and fast.

The wide opening in the upper part of the recovery tank makes it quite easy to clean effortlessly and without wasting any time. The standard diagnostics and hourly runtime counter also facilitate scheduled and extraordinary maintenance. All Trion models come with a three-year warranty or 1,000 hours of runtime.









Characteristics	Benefits	Green aspect	Note
Single-motor power unit able to operate the two washing brushes (the second through Klinmak patent) and suction turbine for drying.	The use of a single motor, compared to other machines which use three for the same functions, greatly reduces the scrubber dryer's energy requirements in the form of power consumed. Trion's display shows the power consumption in the two operating modes: Eco and Max, selectable by the operator.	Less electrical power consumed and less use of materials due to the smaller size of the machines (a Klinmak 40I has an overall volume of less than 0.5 m³), much lower than any competitor. The reduction in overall dimensions allows better operator maneuverability and consequently less frigure.	Energy efficiency understood as the ratio of power consumption and clean square meters. Klinmak measured values between the Eco and Max conditions equal to 0.14 - 0.21 watts/ clean sq.m.
Use of lithium batteries (made possible by the previous point)	Increase in charging cycles, compared to the use of traditional batteries, by at least three times (from 350 to 1,000 cycles). Hence the very strong reduction in overall volumes, especially that of the battery compartment. Lastly, charging times are greatly reduced from 10/12 to two hours. Trion machines can be used up to 16 hours every day.		At least three PB battery packs are used during the lifetime of a single Li-lon battery pack.
No electric motor for operating the suction turbine	Noise reduction	Less noise impact on the operator	Very low maintenance
Timely display of residual runtime	Operators are aware of the remaining runtime so they can best organize the cleaning work to be done.	Optimization of working times	Total control of operations
Water amounts adjustable from the display	Easy to use and precise control of the amount of water used in relation to the type of floor and dirt.	Typical water wastage in manual tap adjust- ments avoided	No wasted water or detergent

Technical characteristics			
Description	Note	TRION5070	TRION5070 Plus
Voltage		54.6V	54.6V
Total installed power	1 Motor	500 W	500 W
Total power consumption	Eco-Mode / Max	290 / 390 W	290 / 390 W
Tank capacity	solution/recovery	47 / 50 L	47 / 50 L
Recommended cleaning	area	from 1000 to 2000 sq.m.	from 1000 to 2000 sq.m.
Theoretical / Real Productivity	2,800 / 2,100 m ² /h	2,800 / 2,100 m ² /h	
Clean surface per charging cycle Eco-Mode / Max Pot.	4,200 / 3,150 sq.m.	8,400 / 6,300 sq.m.	
OPERATOR SOUND PRESSURE LEVEL	Eco-Mode / Max Pot.	64.6 - 66.6 dB(A)	64.6 - 66.6 dB(A)
ENERGY CONSUMPTION	Eco-Mode / Max	0.14-0.19 W/m ²	0.14-0.19 W/m ²
Length		900 mm	900 mm
Width including squeegee		750 mm	750 mm
Height		1,100 mm	1,100 mm
Protection level		IPX3	IPX3
WARRANTY		36 months or 1000 h	36 months or 1000 h
WASHING			
Cleaning width		700 mm / 4x7"	700 mm / 4x7"
Brush rotation speed	Empty/full	340/300 rpm	340/300 rpm
Load on brushes/pads		30 kg	30 kg
Adjustable water flow rate		0-2 l/min	0-2 l/min
DETERGENT DOSING KIT (KiDo)		pre-prepared	pre-prepared
SUCTION			
Suction width		590 mm	590 mm
Turbine vacuum	Eco-Mode / Max	600/900 mmH20	600/900 mmH20
WEIGHT AND PACKAGING			
Dimensions	WxLxH	960x630x1,060 mm	960x630x1,060 mm
Total unpacked / packed weight		66 / 80 kg	69 / 83 kg
BATTERY AND BATTERY CHARGER			
Li-lon capacity	with BMS	54.6V/11.6Ah	54.6V/20.3Ah
Autonomy		1.5 h	3h
UL certified	charger	54.6V - 5/8A	54.6V - 5/8A
Charging time		2h (setting 5A)	2.5h (setting 8A)
Charging cycles		1000	1000

Accessories supplied



Solution flow rate adjustment via proportional solenoid valve Water filter with integrated tap Self-leveling splash guard Optical solution level indicator Clean water drain from the steering wheel Recovery tank level sensor for total stop Detergent dosing kit pre-prepared (KiDo)

Suction

3-stage suction turbine without electric motor

Controls and Operation with two power consumption levels Adjustments (Eco-Mode/Max)



Hour counter Battery charge state Diagnostics Optical power consumption indicator Residual runtime indicator in minutes

Driving comfort Comfortable steering wheel with simultaneous brush and turbine motor start-up functions



4-wheel transport and parking position

Optional equipment

TRION 5070		
Code	Description	
H.052.0	KI-DO (Detergent dosing kit)	





Trion 5070 can be equipped as standard with the detergent regulation system whose percentage (fixed with four values: 0.2%-0.5%-1%-1.5%) is set from the display with a simple operation. This allows the precise calibration of the amount of chemical product according to the application. Therefore, both the waste of detergent compared to manual dosing in water tanks and product stagnation in the tank are avoided.

Consumables

TRION 50	70	
Code	Note	Equipment
G.043.0	750 mm	Front curved squeegee blade
G.044.0	800 mm	Rear curved squeegee blade
G.042.0	750 mm	Polyurethane-anti-oil front curved squeegee blade
G.045.0	800 mm	Polyurethane-anti-oil rear curved squeegee blade
D.012.0	7"	White toothed brush PPL 0.9 mm
D.036.0	7"	Blue toothed brush PPL 0.7mm soft
D.037.0	7"	Black toothed brush PPL 0.5mm supersoft
D.038.0	7"	Tynex Grit 320 toothed brush
D.039.0	7"	Pad holder
D.040.0	7"	Black Nylon Pads (20x)
D.041.0	7"	Green Nylon Pads (20x)
D.042.0	7"	Red Nylon Pads (20x)

Available tank colors



Partner

Tank colors on request





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