



# KlinMak®

## keep clean

### Technical Information

Description	Remark	TRION4050-e	TRION4050 Eco	TRION4050 Eco
Voltage		230V/50Hz	54.6V	54.6V
Power Installed	1 Motor	500 W	500 W	500 W
Power Consumption	Eco-Mode / Max	290 / 390 W	290 / 390 W	290 / 390 W
Tanks capacity	Fresh/Dirty	40 / 45 L	40 / 45 L	40 / 45 L
Area2Clean	Suggested	500 - 1500 mq	500 - 1500 mq	500 - 1500 mq
Productivity	Theo/Expected	2.030 / 1.320 sqm/h	2.030 / 1.320 sqm/h	2.030 / 1.320 sqm/h
Sqm Clean Area / charge cycle	Eco-Mode / Max Power	2.200 / 1.650 sqm	4.400 / 3.300 sqm	
<b>NOISE LEVEL</b>	Eco-Mode / Max Power	64,6 - 66,6 dB(A)	64,6 - 66,6 dB(A)	64,6 - 66,6 dB(A)
<b>ENERGETIC CONSUMPTION</b>	Eco-Mode / Max	0,14-0,19 W/sqm	0,14-0,19 W/sqm	0,14-0,19 W/sqm
Lenght		900 mm	900 mm	900 mm
Width with squeegee		590 mm	590 mm	590 mm
Height		1.100 mm	1.100 mm	1.100 mm
Protection rate		IPX3	IPX3	IPX3
<b>WARRANTY</b>		36 months or 1000h	36 months or 1000h	36 months or 1000h
<b>SCRUBBING SYSTEM</b>				
Working width		508 mm / 2x10"	508 mm / 2x10"	508 mm
Brushes	empty/load	340/300 rpm	340/300 rpm	340/300 rpm
Load on brushhead		30 Kg	30 Kg	30 Kg
Water Flow	adjustable	0-2 l/min	0-2 l/min	0-2 l/min
<b>DETERGENT DOSING SYSTEM (KIDO)</b>				
		prepared	prepared	prepared
<b>VACUUM SYSTEM</b>				
Width		590 mm	590 mm	590 mm
Vacuum	Eco-Mode / Max	600/900 mmH2O	600/900 mmH2O	600/900 mmH2O
<b>WEIGHT AND PACKAGING</b>				
Dimensions	WxLxH	910x520x1.000 mm	910x520x1.000 mm	910x520x1.000 mm
Total weight unit / with packaging		65 / 79 kg	66 / 80 kg	67 / 81 kg
<b>BATTERY AND CHARGER</b>				
Capacity	 Li-Ion with BMS		54,6V/10,20Ah	54,6V/20,40Ah
Runtime			1,5 h	3h
Charger	UL certified		54.6V - 5A	54.6V - 5A
Charging time			2h	4h
Charging cycles			1000	1000

### Standard Accessories Trion Range

#### Scrubbing System



- Water flow adjustment on dash board with a simple push button
- Water filter with integrated tap
- Self levelling splashguard
- Solution tank water level control
- Water tank discharge on dash board
- Recovery tank sensor max level

#### Checks and Adjustments



- Two working power selection (Eco-Mode/Max)
- Counthours
- Battery charger level
- Diagnostic
- Continuos power consumption on display in Watt
- Continuos remaining working time in minutes

#### Vacuum System



- 3Stage suction turbine without e-motor

#### Driving Comfort



- Ergonomic dash board with just one button for activating the Power Unit (one motor for scrubbing and suction)
- Parking position and transport mode on 4 wheels

## Optional accessories

### TRION 4050

#### Part N.

H.040.0	KI-DO (Kit Detergent Dosing System) 4 percentages
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## Air filtration from squeegee (from 11-2019)

### TRION 4050

The exhaust air, coming from the squeegee, goes from the turbine through a specific Hepa H13 filter before moving into the air.

A simple flap must be removed for cleaning or replacing the filter.



## Trion Models

	TRION4050-e	TRION4050 Eco	TRION4050
Tanks Colours	Part N.	Part N.	Part N.
Emerald	F.320.0	F.310.0	F.300.0
Black	F.321.0	F.311.0	F.301.0
Blue	F.322.0	F.312.0	F.302.0
Orange	F.323.0	F.313.0	F.303.0
Red	F.324.0	F.314.0	F.304.0
Yellow	F.325.0	F.315.0	F.305.0
Green Lemon	F.326.0	F.316.0	F.306.0
Fuchsia	F.327.0	F.317.0	F.307.0
Light Blue	F.328.0	F.318.0	F.308.0
Grey	F.329.0	F.319.0	F.309.0

Partner

## Consumables

### TRION 4050

#### Part N. Remark Equipment

G.021.0	560 mm	Front Blade
G.022.0	600mm	Rear Blade
G.034.0	560 mm	Front Blade Antioil
G.035.0	600mm	Rear Blade Antioil
D.025.0	10"	Toothed Brush white (hard) PPL 0,9 mm
D.026.0	10"	Toothed Brush blue (medium) PPL 0,7 mm
D.027.0	10"	Toothed Brush black (soft) PPL 0,5 mm
D.028.0	10"	Pad Holder
D.029.0	10"	Nylon Pad Black (10x)
D.030.0	10"	Nylon Pad Green (10x)
D.031.0	10"	Nylon Pad Red (10x)



# KlinMak®

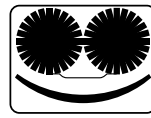
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# KlinMak<sup>®</sup>

keep clean



## TRION<sup>40</sup><sub>50</sub>

### WALK BEHIND SCRUBBER DRYERS

# TRION<sup>40</sup><sub>50</sub>

This new scrubber uses our patented and innovative Klinmak "Power One" single motor drive system to provide superior cleaning, long run times and industry leading noise reduction in one compact unit.

The TRION 4050 is an upright, compact scrubber driven by a single motor to provide scrubbing and suction power. This ground breaking and patented design provides huge benefits in lower energy consumption and noise levels (**64,6 dbA in Eco-Mode**) while maintaining a superior cleaning result.

The TRION 4050 with its upright ergonomic design and low environmental impact is perfect for all general scrubbing needs especially tight areas and areas where noise reduction and day cleaning are paramount.

The TRION 4050 is the perfect solution for cleaning areas between **1.000 to 2.000 sqm**. The upright design, low power consumption (**0.14 W/sqm**) and low noise scrubber dryer will make your productivity soar (**up to 12h/day**).



## Superior cleaning performances



### ① Front brush head with 2 brushes washing system

More uniform and high cleaning result on different surfaces, in comparison to a single disc scrubber dryer. This also due to the high speed of the brushes (340 rpm).



Clean tight space and narrow aisles, minimizing successive manual steps. Simmetric brush head allows the cleaning job in both directions.



### ② Heavy duty brush head (30 kg)

Trion can be used from deep to maintenance cleaning. Squeegee can be lift it up for deep cleaning.



### ③ 3 stage turbine with the squeegee just behind the brushes

Great combination for a perfect drying result, straight and on curve, on any kind of surface.



## Easy to handle



### 4 Simple Dashboard (2 buttons)

2 simple buttons : one for the adjustment of the solution flow from 0 – 2 l/min, visible on display. No waste of water and detergent normally present with manual taps. The second button for wash&dry with the possibility to select Eco & Max power. Unique feature is the working power on the display and the working runtime before charging . Battery check and counthours are standard. Cardboard is foreseen for Detergent Dosing System called KiDo (optional).



### 5 Tank in Tank System

Fresh water tank with optical level indicator and water filter inlet. Recovery tank has a big opening for inspection and cleaning. No edges, no dirty water could remain. Hygiene first!



### 6 Big wheels and 2 parking - transport wheels

Easy to move on uneven floor or on steps. Parking position and transport on 4 wheels. No pressure on brushes and blades during parking position.



## Sustainable production



### 7 Toothed brushes: high efficiency (KlinMak patent)

The patented system by two toothed brushes allows for the installation of just a single scrubbing motor with a significant cost reduction. This system grants a strong reduction of the electrical consumption, increase the runtime and the average life of the machine. Just one motor, 48V, for increasing the energetic efficiency and reducing strongly the noise of the machine. No e-motor for the turbine is foreseen ! High increase of the runtime and big reduction of the maintenance cost. Less fatigue with 2 brushes for the operator, being the unit almost self propelling.

### 8 Just on electric motor, no electric motor for the turbine. Low noise

**"Lowest level, in his category, of the energetic consumption (0,14 W/sqm). Incredible low noise level : 64,6 dbA in Eco Mode.** The Li ion battery gives the opportunity to introduce into the market a unit with low weight, with low volume, with less material, focussing on the reduction of waste production. A big step ahead to the Sustainable Development Goals ONU 12.5 ."



## Low cost in use



### 9 Li - Ion Battery pack with BMS: operation up to 12h/day

Many benefits by the use of Li-Ion battery (Li-NCA) : light weight, small dimensions, high runtime, no memory effect, low rate of runout, higher cycles (1.000) in comparison to AGM-GEL batteries and short charging time depending by the charger type. Standard the 5A charger, UL certified. Advances BMS (battery management system), made in Italy, is able to manage the operation of the battery, to send all the parameters to the main card board of the machine and to memorized many infos. A specific button switch on the battery on the main battery box. The use of the Li Ion battery gives the opportunity to use the scrubber dryer up to 12 h / day, absolutely unthinkable with the traditional batteries.



### 10 High productivity and insignificant service cost

Trion decrease the cleaning operating cost . Eco-mode reduces the power consumption and the noise level!

Ordinary service on blades, fresh water tank filter cleaning, brushes replacement are easy and fast. Diagnostic and hour meter allows to manage the extraordinary and regulary maintenance. 3 Years Warranty or 1.000h working time!