

KlinMak[®]

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TRION²⁰₄₀

WALK BEHIND SCRUBBER DRYERS

TRION²⁰₄₀

A significant step ahead in the development of compact walk behind scrubbers by reducing the number of motors required to drive the brushes and the vacuum suction motor. KlinMak's designers have developed an innovative power unit consisting of one only motor to drive both the dual brush head and vacuum suction motor. The benefits to the end user are enormous resulting in a lower overall energy consumption, a high increase in runtime and battery autonomy, and an extremely low level of noise **(64,6 dbA in Eco-Mode)**.

The TRION 2040 is the perfect solution for cleaning areas between 250 to 1.000 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. Symmetric 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 run-time 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 regular maintenance. 3 Years Warranty or 1.000h working time!



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Technical Information

Description	Remark	TRION2040-e	TRION2040
Voltage		230V/50Hz	54,6V
Power Installed	1 Motor	500 W	500 W
Power Consumption	Eco-Mode / Max	240 / 340 W	240 / 340 W
Tanks capacity	Fresh/Dirty	20 / 22 L	20 / 22 L
Area2Clean	Suggested	250 - 750 sqm	250 - 750 sqm
Productivity	Theo/Expected	1.624 / 1.050 sqm/h	1.624 / 1.050 sqm/h
Sqm Clean Area / charge cycle	Eco-Mode / Max Power	2.100 / 1.500 sqm	
NOISE LEVEL	Eco-Mode / Max Power	64,6 - 66,6 dB(A)	64,6 - 66,6 dB(A)
ENERGETIC CONSUMPTION	Eco-Mode / Max	0,14-0,21 W/sqm	0,14-0,21 W/sqm
Lenght		800 mm	800 mm
Width with squeegee		490 mm	490 mm
Height		1.100 mm	1.100 mm
Protection rate		IPX3	IPX3
WARRANTY		36 months or 1000h	36 months or 1000h
SCRUBBING SYSTEM			
Working width		406 mm / 2x8"	406 mm / 2x8"
Brushes	empty/load	340/300 rpm	340/300 rpm
Load on brushhead		30 Kg	30 Kg
Water Flow	adjustable	0-2 l/min	0-2 l/min
DETERGENT DOSING SYSTEM (KIDO)		prepared	prepared
VACUUM SYSTEM			
Width		490 mm	490 mm
Vacuum	Eco-Mode / Max	600/900 mmH2O	600/900 mmH2O
WEIGHT AND PACKAGING			
Dimensions	WxLxH	910x520x1.000 mm	910x520x1.000 mm
Total weight unit / with packaging		55 / 69 kg	57 / 71 kg
BATTERY AND CHARGER			
Capacity	 Li-Ion with BMS		54,6V/10,20Ah
Runtime			2h
Charger	UL certified		54.6V - 5A
Charging time			2h
Charging cycles			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 bottom for activating the Power Unit (one motor for scrubbing and suction)
Parking position and transport mode on 4 wheels

Optional accessories

TRION 2040

Part N.

H.040.0 KI-DO (Kit Detergent Dosing System) 4 percentages

Air filtration from squeegee (from 11-2019)

TRION 2040

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

	TRION2040-e	TRION2040
Tanks Colours	Part N.	Part N.
Emerald	F.220.0	F.200.0
Black	F.221.0	F.201.0
Blue	F.222.0	F.202.0
Orange	F.223.0	F.203.0
Red	F.224.0	F.204.0
Yellow	F.225.0	F.205.0
Green Lemon	F.226.0	F.206.0
Fuchsia	F.227.0	F.207.0
Light Blue	F.228.0	F.208.0
Grey	F.229.0	F.209.0

Partner

Consumables

TRION 2040

Part N.	Remark	Equipment
G.019.0	445 mm	Front Blade
G.020.0	480 mm	Rear Blade
G.032.0	445 mm	Front Blade Antioil
G.033.0	480 mm	Rear Blade Antioil
D.018.0	8"	Toothed Brush white (hard) PPL 0,9 mm
D.019.0	8"	Toothed Brush blue (medium) PPL 0,7 mm
D.020.0	8"	Toothed Brush black (soft) PPL 0,5 mm
D.021.0	8"	Pad Holder
D.022.0	8"	Nylon Pad Black (10x)
D.023.0	8"	Nylon Pad Green (10x)
D.024.0	8"	Nylon Pad Red (10x)



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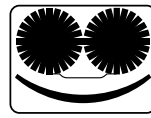
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TRION⁴⁰₅₀

WALK BEHIND SCRUBBER DRYERS

TRION⁴⁰⁵⁰

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



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Technical Information

Description	Remark	TRION4050-e	TRION4050 Eco	TRION4050
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	
NOISE LEVEL	Eco-Mode / Max Power	64,6 - 66,6 dB(A)	64,6 - 66,6 dB(A)	64,6 - 66,6 dB(A)
ENERGETIC CONSUMPTION	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
WARRANTY		36 months or 1000h	36 months or 1000h	36 months or 1000h
SCRUBBING SYSTEM				
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
DETERGENT DOSING SYSTEM (KIDO)		prepared	prepared	prepared
VACUUM SYSTEM				
Width		590 mm	590 mm	590 mm
Vacuum	Eco-Mode / Max	600/900 mmH2O	600/900 mmH2O	600/900 mmH2O
WEIGHT AND PACKAGING				
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
BATTERY AND CHARGER				
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 bottom 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

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)



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Also available
with



HiLo⁸⁰₆₅

COMPACT RIDE-ON SCRUBBER-DRYER

HiLo⁸⁰₆₅

With the introduction of this innovative scrubber-dryer, we have maintained the mobility and manoeuvring characteristics of a walk-behind, with the productivity and yield of a ride-on.

The combination of advantages generates a unique machine that allows it to adapt to all types of applications.



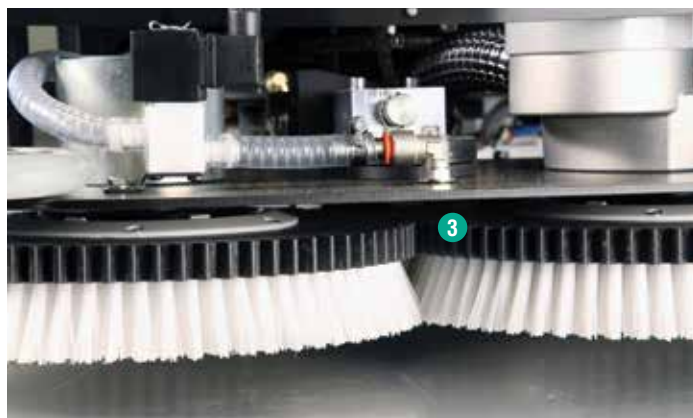
1 Front washing head

- Greatly enhances visibility during work
- Ensures full coverage of the areas in which it works, compared to the versions with head, single or double brush, "belly band".
- Perfectly cleans corners and edges, flush and in tight spaces, avoiding costly manual pick-ups.



2 Wiper in front of the wheels

- Drying in front of the wheels allows, especially in maintenance washing, to constantly drive on a dry surface, preventing slippage or accidental blows on cornering or braking.
- This innovation greatly increases comfort and the safety standards.



3 Cogbrush (KlinMak patent)

- The use of a double brush ensures a uniform and excellent cleaning on various kinds of surfaces and greatly increases the quality of washing compared to a single brush.
- Cogbrushes allow the use of a single gear motor, simplifying the transmission and reducing the cost.
- Moreover, there is an increase in energy efficiency, benefitting the autonomy of the scrubber-dryer.



4 Heavy washing head with adjustable load (0-41 kg)

HILO8065 are used for deep cleaning with layered dirt, and maintenance. The HILO8065 version is provided with an electric adjustment device of the load from maximum value (41 kg) up to zero. This reduces consumption in case of moderate dirt on rough surfaces.

5 Reduced maintenance

All routine maintenance operations such as cleaning and replacement of the wiper rubbers, cleaning of the clean water filter, replacement of the brushes are quick and simple. Thanks to the wide opening on the upper part, cleaning the recovery tank takes place without effort and loss of time. The standard diagnostic and operating hour counter also facilitate the scheduled and extraordinary maintenance.

Economic choice

HILO8065 have the performance characteristics of a ride-on scrubber-dryer, and purchase and management costs of a walk-behind scrubber-dryer. This allows a great increase in production, halving the operating cost (Euro/m² washed).



6 Electromechanics

Technical solutions with a calibrated use of electronics (for drive only) have been adopted to provide a high level of reliability, giving preference to the traditional electromechanics for the functions: brushes, extraction and head lifting. Standard resettable fuses.



7 Motor/drive unit

When thoroughly cleaning the drive on the rear wheels, ensures a high stability, especially on wet floors.



8 Safety pedal brake

The electric brake, always open with operator on board, only engages when you activate the safety pedal. This allows for minor wear of the electric brake itself and a significant energy recovery during deceleration, benefitting the autonomy of the scrubber-dryer.



9 Reduction of speed on cornering

An automatic device reduces speed on cornering, both forward and in reverse, increasing the safety of the operator in all environments and on all surfaces.

10 "Power steering"

3 wheel turns represent an absolute advantage in driving comfort and in manoeuvrability.

11 Reduction of solution on cornering

An automatic device reduces the consumption of the solution, where not necessary, avoiding leaks in recovery. This leads to greater autonomy in cleaning.

12 Selection of the operating speed

The operator can adjust the work speed, adapting it to the type of dirty and environment to be cleaned.



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Technical features HiLo8065

Tanks (solution/recovery)	80/80 L
Cleaning lane	650 mm
Theoretical yield	3,900 sq.m/h
Installed power / Power supply /	
Protection degree	1.350 W / 24 V / IPX3
Autonomy	up to 4 h
Energy consumption	0.35 W / sq.m
Dimensions (LexWixH) with mounted wiper	1.320 x 730 x 1225 mm
Weight without batteries / with batteries	125 - 210 kg
Reverse corridor	1.8 m
Sound level	69 dbA

WASHING

Brushes	2 x Ø13" - 330 mm
Brush motor rated power (1)	550 W
Rated / Vacuum brush rotation speed	225 - 187 rpm
Load on brushes	<i>adjustable on HILO8065</i> 0-41 kg

EXTRACTION

Silenced turbine rated power	500 W
Vacuum (0 mm orifice)	1.526 mm H ₂ O

TRANSMISSION

Motor/drive power with electric brake	300 W
Work speed	0 - 4 km/h
Transfer speed	0 - 6 km/h
Max. gradeability (work / ramp)	7% - 16 %

WASHING HEAD LIFTING

Gear motor power / ratio	30 W
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BATTERIES

Battery compartment (2x)	375 x 375 x 315 mm
Batteries (2x)	Gel 12V 105/140Ah (C5/C20)
Unit dimensions recommended batteries	345 x 170 x 285 mm
Unit weight recommended batteries	42.7 kg

PACKAGING

Dimensions (including pallet)	1349x749x1364 mm
Weight without batteries (including pallet, cardboard...)	155 kg
Weight with batteries (including pallet, cardboard...)	240 kg
Weight with batteries, battery charger, brushes (including pallet, cardboard, etc..)	246 kg

STANDARDS AND WARRANTY

Machinery Directive	EN60335-2-72: 2013
Low Voltage Directive	2014/35/EC
Electromagnetic Compatibility Directive	2014/30/EC
Warranty	24 months or 800 hours of work

Hilo models

P.N.	Description	Recovery Tank Colour
F.180.0	HILO8065 G	Emerald
F.181.0	HILO8065 N	Black
F.182.0	HILO8065 B	Blue
F.183.0	HILO8065 O	Orange
F.184.0	HILO8065 R	Red
F.185.0	HILO8065 Y	Yellow
F.186.0	HILO8065 LG	Green Lemon
F.187.0	HILO8065 F	Fuchsia
F.188.0	HILO8065 LB	Light Blue
F.189.0	HILO8065 Gr	Grey



Accessories supplied

Washing



Solution flow regulation proportional solenoid valve directly on washing head
Self-levelling splash guard
Water filter with integrated valve
Automatic Detergent Dosing Kit Set-up (KIDO)
Wiper lip in Serilor ® (antioil polyurethane highly resistant and longlife)
Self-regulation of the solution flow rate on cornering
Manual lift of independent wiper for underlying work
Dirty water drain hose with flow adjustment (flow control)
Solution level indicator
Water loading hose
Pressure end adjustment on brushes and LED display for the control from the control panel

Extraction



Stainless steel air filter to protect the suction turbine
Silenced and longlife three-stage suction turbine

Checks and adjustments



Hour meter
LED blinker
Diagnostics
Electric foot brake
Wiper and washing head electric lifting
Operator fuses resettable

Comfort driving




"Power steering" (3 wheel turns)
work speed adjustment from panel
Self-regulation of the speed on cornering
Comfort seat with backrest
Ergonomic steering wheel
Non-slip accelerator pedal
High quality and resistance bumpers

Optional Equipment

P.N.	Accessory	Remark
H.024.0	Parabolic squeegee	Highest drying result on straight tiles
H.038.0	V Shape squeegee	Highest coverage during 360°
H.013.0	KI-DO (Kit detergent dosing system)	Retrofit possible
H.050.0	Kit to double up the water flow	Up to 7 l/min

Accessories on request

Cod.	Accessory	Remark
K.001.0	Backweight 30 kg	Suggested on uneven floors
B.001.0	Battery Gel 12V 105/140 Ah (C5/C20)	Standard
B.013.0	Battery AGM Discover 12V 120/140 Ah (C5/C20)	EV12A-A on request
B.018.0	 Kit Li Ion Batteries (2x) 24V-70Ah + Charger 40A	Up to 6h runtime and 3,5h charging time only
X.024.0	Charger (external) 24V - 13A	

Consumables

P.N.	Consumable	Remark
G.003.1	Front blade curve squeegee	antioil - longlife Serilor
G.004.1	Rear blade curve squeegee	antioil - longlife Serilor
G.017.0	Front blade curve V shape squeegee	antioil - longlife Serilor
G.018.0	Rear blade curve V shape squeegee	antioil - longlife Serilor
D.001.0	Toothed brush white 13" PPL 0,9 mm	not delicate floors (cement, stones..)
D.002.0	Toothed brush blue 13" PPL 0,7 mm	ceramic, marble, etc...
D.011.0	Toothed brush light blue 13" PPL 0,3 mm	delicate floors (lino, etc..)
D.003.0	Toothed brush tinex 13"	for removing heavy dirty
D.004.0	Pad holder 13"	
D.005.0	Nylon Pad Black (3 pcs x 2 boxes)	
D.006.0	Nylon Pad Green (3 pcs x 2 boxes)	
D.007.0	Nylon Pad Red (3 pcs x 2 boxes)	
D.014.0	Melamina Pad 13" (2x)	

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