

®

BOOST®

Battery Operated Orbital Scrubber Technology
Orbital Scrubbers



www.clarkeus.com

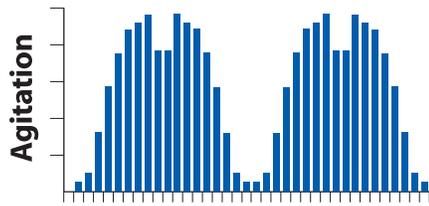
Clarke®

Cleaning Power Since 1916.

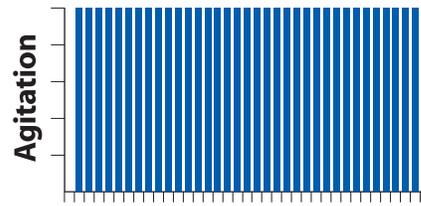
BOOST® – Cleans up to 6 Times Better than Disc Scrubbers!

For years the only way to productively clean and maintain smooth tile or concrete floors has been with a twin-disc automatic scrubber using contra-rotating pads or brushes. These machines operate with low (200-300) RPM and require high pad pressure to achieve an acceptable result. On these models, cleaning solution is slung away from the pads and only contained with side skirting that is easily worn or damaged. Another drawback to disc scrubbers is that the pad only cleans in one direction as it passes over the floor surface.

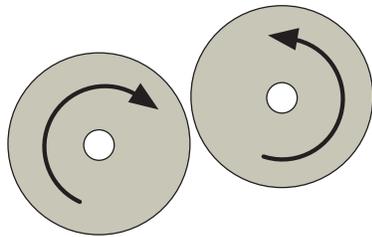
The unique **BOOST®** pad is rectangular, not round, and provides consistent contact across the cleaning path. Two round pads have less contact area in the center and on the edges.



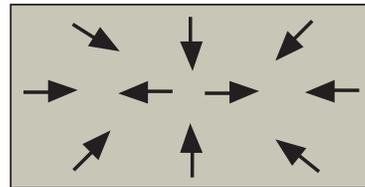
Across Pad Width



Across Pad Width



One Way and Uneven
Directional Scrubbing of
Conventional Disc Machines



Even Multi-Directional
Scrubbing by **BOOST™**
Orbital Pad Scrubber

BOOST® employs an orbital motion that spins at 2250 RPM. This orbital motion requires less pad pressure and attacks the dirt from multiple directions as it passes over the floor. A floor scrubbers cleaning effectiveness can be measured by using this simple calculation:

$$\text{Pad RPM X Pad Pressure} = \text{Co-efficient of Cleaning Effectiveness (CCE)}$$

A comparison of *disc scrubbers vs. BOOST®* yields the following results:

DISC: 200 RPM X 220 lbs. pad pressure = CCE of 44,000

BOOST®: 2250 RPM X 120 lbs. pad pressure = CCE 270,000

Clean your floors 6 times more effectively than traditional disc scrubbers!



Save Water – Reduce Waste Water

With **BOOST**[®], cleaning solution is introduced in front of the rectangular scrubbing pad via Clarke's patented **Pulse Modulated Solution Control** (Figure 1). The orbital action contains the cleaning solution in the pad and carries it for the full length of the pad. Compared to traditional disc scrubbers that sling water away from the pad, **BOOST**'s efficient use of the cleaning solution results in **water savings of 50% to 70% with BOOST**[®].

Using less water during cleaning keeps the operator working productively rather than in the janitor's closet emptying and refilling the scrubber tanks.

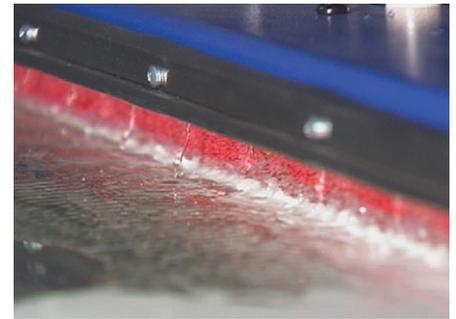
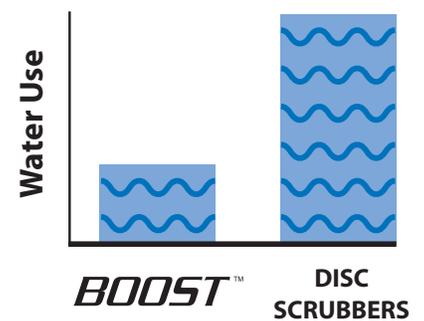


Figure 1

This savings in clean water also translates into a 50% to 70% reduction in waste water, which reduces waste water removal costs and is environmentally friendly.

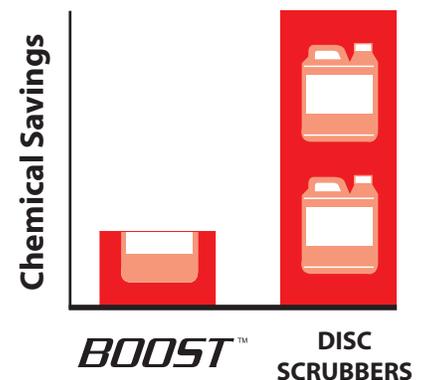
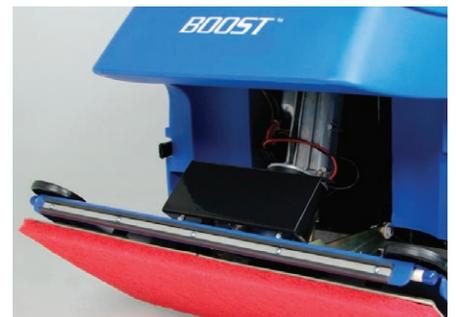


Save Cleaning Chemicals and Floor Finish

We've seen that Clarke's **BOOST**[®] uses significantly less water than a traditional disc floor scrubber, and using less water means using significantly less cleaning chemical. With **BOOST**[®], there is no need to change your current floor care chemical program as **BOOST**[®] units do not require a proprietary cleaning chemical.

Floors are cleaned *up to 6 times* more effectively with **BOOST**'s efficient orbital action, and cleaner floors allow for more effective burnishing. Dirt not removed by traditional disc scrubbers is burnished into the finish, resulting in a yellowing of the finish. With more effective cleaning **AND** burnishing, the time between labor-intensive strip-and-recoats can be extended, which means less money spent on floor stripper and finish.

A 40-store chain of grocery stores in the Midwest currently spends over \$35,000 a year in neutral cleaner used in their disc-style automatic scrubbers. By using **BOOST**[®], they will put over \$18,000 back into their annual floor care budget without skimping on their stores' appearance or needing to change chemical vendors!



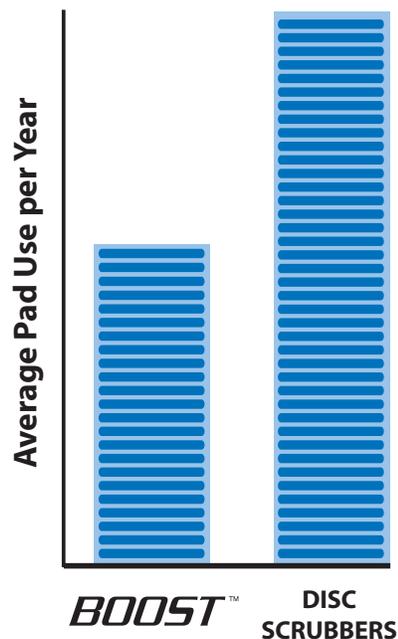
This savings in chemical usage translates into a 50% to 70% reduction in waste water, which reduces waste water removal costs, is environmentally friendly, and saves you money.

Reduce Floor Pad Consumption

Less pad pressure is required to achieve the desired cleaning result because *BOOST*[®] cleans at orbits 10 times that of a conventional scrubber and attacks dirt from multiple directions. With *BOOST*[®], the combination of high RPM orbital action at reduced pad pressure can extend the life of your floor pads by up to 40%!

That same 40-store chain of grocery stores in the Midwest that spends over \$35,000 in neutral cleaner also spends over \$30,000 in floor pads. By implementing Clarke's *BOOST*[®] cleaning method they are saving over \$12,000 per year in pad costs!

This reduction in pad usage is not only a huge savings in your floor care budget but also another important step forward in environmental waste reduction.

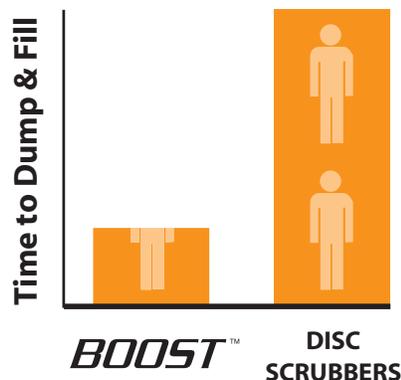


Save Labor and Batteries – Increase Efficiency

With traditional disc floor scrubbers, as much as 30% of an operator's time during a shift is spent emptying the recovery tank and refilling the solution tank. *BOOST*[®] allows the operator to stay productive longer with fewer stops to the drain and fill station.

Since conventional disc scrubbers use twice the amount of solution, more dump and fills are required. With *BOOST*[®], you'll experience a 15 to 20 minute labor savings for each dump and refill that's eliminated. The *BOOST*'s unique pad shape also allows for close-edge cleaning without overspray, virtually eliminating additional labor steps in cleaning or floor stripping operations.

BOOST's reduced water usage coupled with the reduced pad pressure enables the *BOOST*[®] machine to utilize the motors and battery pack more efficiently which translates into an increase of run time of up to 25% compared to similar disc scrubbers! By using *BOOST*[®] you can reduce the cost of battery replacement and reduce the environmental impact of battery recycling. *BOOST*'s efficient motors are quiet, helping to reduce the ambient noise level for the operator and keep ever-rising worker's compensation claims to a minimum.



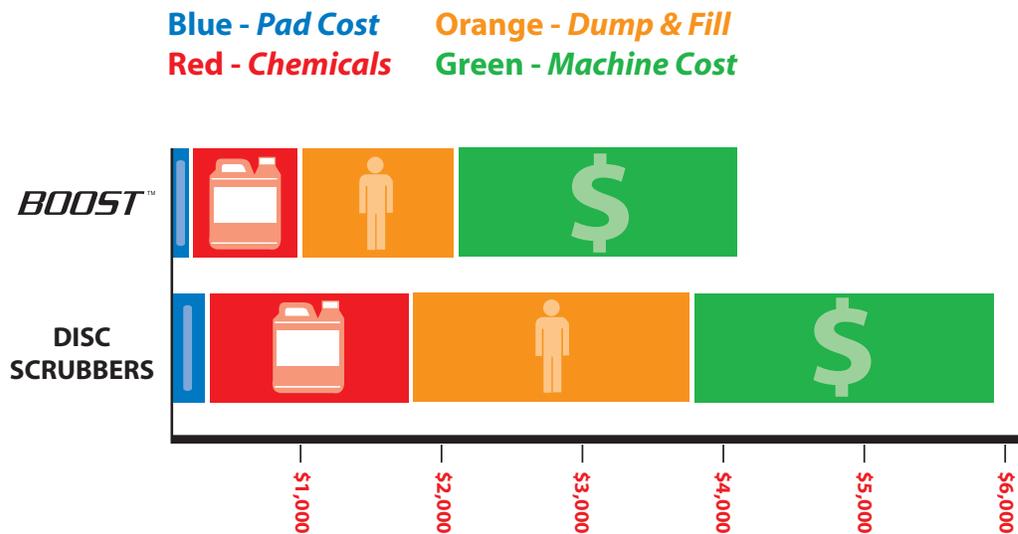
Reduce Your Overall Costs

The overall savings by using BOOST® is significant –

- 50% - 70% less water consumption.
- 50% - 70% less chemical consumption.
- 25% increase in battery runtime.
- 40% increase in pad life.
- Less down time because of fewer empty and refill cycles.
- High speed agitation wet polishes as it scrubs to reduce burnishing and extend strip and re-coat cycles.
- Reduced noise levels to improve operator safety.



BOOST® has been certified by Clarke® as a “green machine” through measured internal testing against similar machines. Clarke® is serious about designing and manufacturing products that are measurably superior to competitive offerings in the industry.



BOOST®

Orbital Scrubbers

Clarke®



SPECIFICATIONS

	28" BOOST	32" BOOST		32" BOOST Rider	
Part Number	05300K	05312K-Manual Squeegee Lift	05313K - Auto Squeegee Lift in Rev.	00344K (St. Wheel)	00317K (iDrive)
Pad Size	28" x 14" (71 cm x 35.6 cm)	32" x 14" (81.3 cm x 35.6 cm)			
Cleaning Width	28" (71 cm)	32" (81.3 cm)			
Power Supply	24 Volt, (4, 6-V batteries) 250 AH or 330 AH			36 Volt, (6, 6-V Batteries) 250/330/370 AH	
Vacuum Motor	3/4 HP (.56 kW), 3 stage, tangential discharge			1 HP (.75 kW) 3-stage, tangential discharge	
Solution Tank	20 gal. (76 liters)	30 gal. (114 liters)			
Solution Flow	0 to .56 gal/min (0 to 2.1 liters/min.)			0 to .87 gal/min (0 to 3.3 liters/min.)	
Recovery Tank	20 gal. (76 liters)	30 gal. (114 liters)			
Brush Motor	3/4 HP (.56 kW)				
Brush Speed	2250 RPM				
Scrub Pad Orbit	1/4" (.64 cm) diameter				
Brush Pressure	130 lbs. (45.4 kg)	130-170 lbs. (54.4-77 kg)		115-155 lbs. (52-70 kg)	
Speed Forward	250 ft/min. (76 m/min)	230 ft/min. (70.1 m/min)			
Speed Reverse	190 ft/min. (58 m/min)	180 ft/min. (54.9 m/min)			
Squeegee Width	39" (99 cm)	43.5" (110.5 cm)			
Squeegee Material	Gum Rubber or Linatex				
Cleaning Grade	6 degree incline				
Charger	On Board	On Board or Remote		On Board	
Length of machine	56.25" (142.9 cm)	67.3" (170.9 cm)		65" (165 cm)	
Width of machine	28.75" (73.9 cm) (head)	32.75" (83.2 cm) (head)		33" (84 cm)	
	21.5" (54.6 cm) (body)	27.5" (69.9 cm) (body)			
Height of machine	43" (109 cm)	43.75" (112 cm)		56" (142 cm)	51" (130 cm)
Sound test @ operator ear	69 dBA	71 dBA		70 dBA	
Machine Weight	586 lbs. (266 kg)	675 lbs. (306.2 kg)		1488 lbs. (675 kg)	1510 lbs. (685 kg)
Warranty	Polydur® Tanks-8 years, Parts-3 years, Labor-1 year				

Clarke®
 2100 Highway 265
 Springdale, AR 72764
www.clarkeus.com

DISTRIBUTED BY:

Customer Relations: 1-800-253-0367
 Fax Orders to: 1-800-825-2753
 Technical Service: 1-800-356-7274

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