

M17 Comparison to Product Class US Measurement

	Tennant		Tennant		Tennant		Tennant		Nilfisk Advance				Hako/PowerBoss				BR100/250 RI Bp BD100/250 RI Bp		BR120/250 RI Bp BD120/250 RI Bp	
Machine	M17	T17 Presweep	8300 MaxPro 1000	8300 MaxPro 1200	Nilfisk CS7000 Battery	Nilfisk CS7000 Hybrid	PowerBoss Admiral 48	Hako B310 R CL TB 1020	Hako B310 R CL TB 1230											
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	Basic Specifications																			
	Cleaning Path(s)																			
	Sweeping - Main Brush	36.0 in	28.0 in	-22%	36.0 in	0%	36.0 in	0%	36.0 in	0%	27.6 in	-23%	27.6 in	-23%	27.6 in	-23%	27.6 in	-23%	27.6 in	-23%
	with Sweeping Side Brushes (2)	67.0 in	49.4 in	-26%	64.0 in	-4%	64.0 in	-4%	61.0 in	-9%	61.0 in	-9%	54.3 in	-19%	54.3 in	-19%	54.3 in	-19%	Not Specified	??
	# of Sweeping Side Brushes Standard	2	2		1		1		2		2		2		2		2		2	
	Scrubbing - Main Path	40.0 in	40.0 in	0%	40.0 in	0%	48.0 in	20%	48.0 in	20%	48.4 in	21%	40.0 in	0%	48.4 in	21%	39.4 in	-2%	47.3 in	18%
	w/Scrubbing Side Brush	48.0 in	N/A		No	-17%	No	0%	N/A	1%	46.5 in	-17%	No	1%	N/A		No	-18%	No	-2%
	Solution Tank	75 gal	75 gal	0%	57 gal	-24%	57 gal	-24%	75 gal	0%	N/A		N/A		N/A		65.8 gal	-12%	65.8 gal	-12%
Recovery Tank	91 gal	91 gal	0%	74 gal	-19%	74 gal	-19%	75 gal	-18%	75 gal	-18%	N/A		N/A		65.8 gal	-28%	65.8 gal	-28%	
Demisting Chamber	16 gal	16 gal	0%	17 gal	6%	17 gal	6%	0 gal	NA	0 gal	NA	N/A		N/A		0 gal		0 gal		
Solution Tank - Bladder Tank	NA	NA		NA		NA		82 gal	9%	82 gal	9%	82 gal	9%	82 gal	9%	NA		NA		
Recovery Tank - Bladder Tank	NA	NA		NA		NA		82 gal	-11%	82 gal	-11%	82 gal	-11%	82 gal	-11%	NA		NA		
Sweeping System	Integrated	Attachment		Integrated		Integrated		Semi-Integrated		Semi Integrated		Semi Integrated		Semi Integrated		Attachment, Caster Wheel Support		Attachment, Caster Wheel Support		
Hopper Capacity	3 ft3	1.3 ft3	-57%	3 ft3	0%	3 ft3	0%	7 ft3	133%	7 ft3	133%	1.8 ft3	-41%	1.8 ft3	-41%	1.8 ft3	-41%	2 ft3	-29%	
Hopper Dump Height	60.0 in	Manual		60.0 in	0%	60.0 in	0%	60.0 in	0%	Manual, Low Lift		Manual, Low Lift		Manual, Low Lift		Manual, Two Containers, Low Lift		Manual, Two Containers, Low Lift		
Sweep Technology	DFS™ Dual Force Sweeping Technology	Direct Throw		MTS™ Multi-Technology Sweeping		MTS™ Multi-Technology Sweeping		Direct Throw		Direct Throw		Direct Throw		Direct Throw		Direct Throw		Direct Throw		
Dust Control																				
Filtration Technology	Canister	Filter Bag		Panel		Panel		Panel		Panel		Panel		Panel		Canister		Canister		
Filter Size	55 ft2	N/A		55 ft2		55 ft2		115 ft2		115 ft2		16 ft2	-71%	16 ft2	-71%	16 ft2	-71%	47 ft2		
Shaker Technology	ShakeMax™ 360	N/A		VCS™		VCS™		Variable Frequency		Variable Frequency		Vibration Plate		Vibration Plate		Vibration Plate		Not Specified	??	
Permafilter	Yes	No		No		No		No		No		No		No		No		No		
Side Sweep Brush Dust Control	Skirting	No		No		No		Dust Guard™		Dust Guard™		No		No		No		No		
Electrical System	36 V	36 V		36 V		36 V		36 V		Engine Generator		36 V		36 V		36 V		36 V		
Gross Vehicle Weight (with Battery)	7,150 lb	0%	5,940 lb	-17%	4,580 lb	-36%	4,580 lb	-36%	5,716 lb	-20%	4,676 lb	-35%	3,968 lb	-45%	4,620 lb	-35%	4,697 lb	-34%	3,750 lb	-48%
Productivity Aids																				
Scrubbing Side Brush	Yes	Yes		No		No		No		No		Yes, TB1020		No		No		No		
Sweeping Side Brush	Yes, Dual	Yes, Dual		Yes, Single/Dual		Yes, Single/Dual		Yes, Dual		Yes, Dual		Yes, Dual		Yes, Dual		Yes, Dual	??	Yes, Dual	??	
Vac Wand - Wet	Yes, Tray Mount	Yes, Tray Mount		Yes, In Bag		Yes, In Bag		Yes		Yes		Yes		Yes		Not Specified	??	Not Specified	??	
Spray Nozzle with Hose Reel	Yes	Yes		No		No		No, water on wand		No, water on wand		No, water on wand		No, water on wand		Not Specified	??	Not Specified	??	
Debris Basket in Recovery Tank	Yes	Yes		No		No		Yes		Yes		No		No		Not Specified	??	Not Specified	??	
Yellow Touch Points	Yes	Yes		No		No		No		No		No		No		Yes		Yes		
Battery Capacity	510AH - 930AH	510AH - 930AH		380AH-1000AH		380AH-1000AH		up to 770AH		up to ~100AH		up to 480AH		up to 640AH		up to 640AH		up to 630AH		
Battery Exchange	Slide Out	Slide Out		Roll Out/Fork Lift		Roll Out/Fork Lift		Lift Out		N/A		Slide Out		Slide Out		Slide Out		Not Specified	??	
Battery Access	Side/Top Access	Side/Top Access		Rear/Top Access		Rear/Top Access		Side/Top Access		below Fuel Tank		Below Seat		Below Seat		Below Seat		Below Seat		
On Board Charger	No	No		No		No		No		No		No		No		No		No		
Presweep	No	Yes		No		No		System is Basic Presweep		System is Basic Presweep		System is Basic Presweep		System is Basic Presweep		System is Basic Presweep		System is Basic Presweep		
Solution Technologies:																				
ec-H2O™	Yes	Yes		Yes		Yes		No		No		No		No		No		No		
S.E. Switch Capable	Yes	Yes		No		No		No		No		No		No		No		No		
ES™ (Extended Scrubbing)	Yes	Yes		Yes		Yes		Yes		Yes		Yes, Only this Model		No		Yes		Yes		
FaST™ (Foam Activated Scrub Tech)	No	No		Yes, Detergent		Yes, Detergent		No		No		No		No		No		No		
Solution Autofill System	Yes	Yes		ES Only		ES Only		Yes		Yes		Yes		Yes		Yes		Yes		
Other	N/A	N/A		N/A		N/A		eco-Flex, Detergent Metering		eco-Flex, Detergent Metering		Aqua-Stop & Detergent Metering		Aqua-Stop & Detergent Metering		Aqua-Stop & Detergent Metering		Detergent Metering		
Performance																				
Power Specs: Disk Scrub Head																				
Down Force	550 lb	550 lb	0%	500 lb	-9%	500 lb	-9%	400 lb	-27%	400 lb	-27%	205 lb	-63%	119 lb		119 lb	-78%	Not Specified	??	
Brush Motor	1.5 hp	1.5 hp	0%	1.0 hp	-33%	1.0 hp	-33%	1.0 hp	-33%	1.0 hp	-33%	1.0 hp	-37%	1.0 hp		1.0 hp	-37%	1.0 hp	-33%	
Brush Motor Count	2	2		2		2		3		3		3		2		3		2		
Maintenance Free Brushless DC Motor	Yes	Yes		No		No		No		No		No		No		No		No		
Brush Speed	315 rpm	315 rpm		320 rpm		320 rpm		Not Specified	??	Not Specified	??	210 rpm	-33%	210 rpm	-33%	210 rpm	-33%	140 rpm	-56%	
Power Specs: Cylindrical Scrub Head																				
Down Force	550 lb	550 lb	0%	500 lb	-9%	500 lb	-9%	N/A		N/A		N/A		N/A		N/A		Not Specified	??	
Brush Motor	1.50 hp	1.50 hp	0%	1.00 hp	-33%	1.00 hp	-33%	N/A		N/A		N/A		N/A		N/A		1.5 hp	0%	
Brush Motor Count	2	2		2		2		N/A		N/A		N/A		N/A		N/A		2		
Maintenance Free Brushless DC Motor	Yes	Yes		No		No		N/A		N/A		N/A		N/A		N/A		No		
Brush Speed	500 rpm	500 rpm		500 rpm		500 rpm		N/A		N/A		N/A		N/A		N/A		1,250 rpm	150%	
Power Specs: Sweeping System																				
Brush Motor	1.0 hp	1.0 hp		0.9 hp		0.9 hp		1.1 hp	14%	1.1 hp	14%	0.8 hp	-18%	0.8 hp	-18%	0.8 hp	-18%	Not Specified	??	
Vac Fan Motors (dust control)	1.1 hp	0.6 hp		0.75 hp		0.75 hp		Not Specified	??	Not Specified	??	0.3 hp	-71%	0.3 hp	-71%	0.3 hp	-71%	Not Specified	??	
Gradeability - Transport Empty	12.0 Deg/21%	12.0 Deg/21%		8.0 Deg/14%		8.0 Deg/14%		12.0 Deg/21%		12.0 Deg/21%		15%		15%		15%		Not Specified	??	
Gradeability - Working	5.0 Deg/8.7%	5.0 Deg/8.7%		6.0 Deg/10.5%		6.0 Deg/10.5%		10 Deg/17.6%		10 Deg/17.6%		6%		6%		6%		15%	??	
Propel Speed Transport	5.5 mph	5.5 mph		5.5 mph		5.5 mph		5.5 mph	0%	5.5 mph	0%	5.0 mph	-9%	5.0 mph	-9%	5.0 mph	-9%	3.8 mph	-32%	

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3/5/2019

	Tennant			Tennant			Tennant			Tennant			Nilfisk Advance		Hako/PowerBoss				BR100/250 RI Bp BD100/250 RI Bp		BR120/250 RI Bp BD120/250 RI Bp		
Machine	M17		T17 Presweep		8300 MaxPro 1000		8300 MaxPro 1200		Nilfisk CS7000 Battery		Nilfisk CS7000 Hybrid		PowerBoss Admiral 48		Hako B310 R CL TB 1020		Hako B310 R CL TB 1230						
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	Propel Speed Working	4.0 mph		4.0 mph		5.5 mph		5.5 mph		3.5 mph	-13%	3.5 mph	-13%	4.4 mph	10%	4.4 mph	10%	4.4 mph	10%	3.8 mph	-6%	3.8 mph	-6%
	Propel Motor	3.0 hp		3.0 hp	0%	3.0 hp	0%	3.0 hp	0%	Not Specified	??	Not Specified	??	2.7 hp	-11%	2.7 hp	-11%	2.7 hp	-11%	2.2 hp	-28%	2.2 hp	-28%
	AC Propel Motor	Yes		Yes		No		No		Yes		Yes		No		No		No		No		No	
	Location: Steer/Propel Wheel	Front		Front		Front		Front		Rear		Rear		Front		Front		Front		Front		Front	
	Operates on DRY or WET Surface	DRY		DRY		DRY		DRY		WET		WET		DRY		DRY		DRY		DRY		DRY	
	Steer INTO or AWAY from Walls and Racki	AWAY		AWAY		AWAY		AWAY		INTO		INTO		AWAY		AWAY		AWAY		AWAY		AWAY	
Vacuum Fan Dust Control - Maintenance Free	Yes		No		No		No		No		No		No		No		No		No		No		
Dual Vacuum Fans - Water Recovery	Standard		Standard		Standard		Standard		Single		Single		Yes		Yes		Yes		No, Single		No, Single		
Protection																							
On and Off Both Sides of Machine	No		No		No		No		No		No		Yes		Yes		Yes		No		No		
Steering Wheel Mounted Controls (eyes forward)	Yes		Yes		No		No		No		No		No		No		No		No		No		
Overhead Guard	Yes, FOPs		Yes, FOPs		Yes		Yes		Yes, Not FOPs		Yes, Not FOPs		Yes, Not FOPs		Yes, Not FOPs		Yes, Not FOPs		Yes, Not FOPs		Yes, Not FOPs		
Full frontal shrouding	Yes		Yes		Yes		Yes		Leg/Foot Exposure		Leg/Foot Exposure		Yes		Yes		Yes		Partial Leg Exposure		Partial Leg Exposure		
Steel Bumpers Secured to Frame	Standard Wrap Around Steel Bumper		Standard Wrap Around Steel Bumper		Standard Wrap Around Steel Bumper		Standard Wrap Around Steel Bumper		Steel Plates Screwed on Plastic		Steel Plates Screwed on Plastic		Warp Around Steel Bumper		Warp Around Steel Bumper		Warp Around Steel Bumper		Warp Around Steel Bumper		Warp Around Steel Bumper		
Front Corner Rollers	Yes, Cushioned		Yes, Cushioned		Yes, Hard		Yes, Hard		Yes, Hard		Yes, Hard		Yes, Hard		Yes, Hard		Yes, Hard		Yes, Hard		Yes, Hard		
HD Squeegee Protection Kit	Yes		Yes		No		No		No		No		No		No		No		No		No		
Sound Level	75 dBA		Disk 65 dBA Cyl 66 dBA		78 dBA		78 dBA		72 dBA		81 dBA		76.5 dBA (DIN 63335-2-72)		76.5 dBA (DIN 63335-2-72)		76.5 dBA (DIN 63335-2-72)		71-73 dBa (Manual) 67 dBA (Website)		71-73 dBa (Manual) 67 dBA (Website)		
UL Type ES	Type E & ES		Type E & ES		Type E & ES		Type E & ES		ETL Labeled		ETL Labeled		Not Specified	??	Not Specified	??	Not Specified	??	Not Specified	??	Not Specified	??	
Automatic Parking Brake	No, Mechanical		No, Mechanical		No		No		Mechanical		Mechanical		No, Mechanical		No, Mechanical		No, Mechanical		Not Specified	??	Not Specified	??	
AV Back-Up Alarm w/Stroke	Yes		Yes		No		No		Stroke		Stroke		Stroke		Stroke		Stroke		Stroke		Stroke		
LED Headlights	Yes		Yes		No		No		Yes		Yes		Work Light, not LED		Work Light, not LED		Work Light, not LED		Head Light, not LED		Head Light, not LED		
Ease of Use																							
Deluxe Seat w/Seatbelt	Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		
Single Foot (Propel/Brake)	Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		
Cargo Net Construction	On Deluxe Seat		On Deluxe Seat		No		No		No		No		No		No		No		No		No		
Large Designated Storage Location	On Battery Cover		On Battery Cover		No		No		No		No		Not Specified	??	Not Specified	??	Not Specified	??	Not Specified	??	Not Specified	??	
Spray Bottle and Cup Holder	Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Not Specified	??	Not Specified	??	
Holders for Simple Tools or Pencil/Pens	Yes		Yes		No		No		No		No		Not Specified	??	Not Specified	??	Not Specified	??	Not Specified	??	Not Specified	??	
Yellow Touch Points for Ease of Maintenance	Yes		Yes		No		No		No		No		No		No		No		Yes		Yes		
Threaded Fasteners to Change Squeegees	No		No		No		No		Yes		Yes		Yes		Yes		Yes		Yes		Yes		
Recovery Tank Access Step	Yes		Yes		No		No		No		No		No		No		No		No		No		
Recovery Drain Hose Diameter	3.0 in		3.0 in		1.3 in		1.3 in		1.8 in	-42%	1.8 in	-42%	2.0 in	-34%	2.0 in	-34%	2.0 in	-34%	1.4 in	-54%	1.4 in	-54%	
Solution Drain Hose Diameter	3.0 in		3.0 in		1.3 in		1.3 in		1.00 in	-67%	1.00 in	-67%	2.0 in	-34%	2.0 in	-34%	2.0 in	-34%	1.4 in	-54%	1.4 in	-54%	
Adjustable Flow Drain Cuff	Yes		Yes		No		No		Pinch Valve		Pinch Valve		Yes		Yes		Yes		No		No		
Center Module Touch Activated Controls	Yes		Yes		No		No		No		No		No		No		No		No		No		
Water Flow Rate Settings	Yes		Yes		Yes, Lever		Yes, Lever		Yes		Yes		Yes		Yes		Yes		Yes		Yes		
Horn in Wheel	Yes		No		No		No		No		No		No		No		No		No		No		
Pro-Panel™ Touch Controls	Yes		No		No		No		No		No		No		No		No		No		No		
Touch Screen Controls	Yes		No		No		No		No		No		No		No		No		No		No		
Pro-ID™ Operator Log In	Yes		No		No		No		No		No		No		No		No		No		No		
Pro-Check™ Operator Checklist (download)	Yes		No		No		No		No		No		No		No		No		No		No		
PerformanceView™ Camera (w/Back Up Camera)	Yes		No		No		No		No		No		No		No		No		No		No		
On-Board Operator Videos	Yes		No		No		No		No		No		No		No		No		No		No		
Dimensions																							
Length	117.0 in		113.0 in	-3%	104.0 in	-11%	104.0 in	-11%	103.0 in	-12%	103.0 in	-12%	103.0 in	-12%	103.0 in	-12%	103.0 in	-12%	93.3 in	-20%	93.3 in	-20%	
Width	54.0 in		53.0 in	-2%	51.0 in	-6%	59.5 in	10%	48.0 in	-11%	48.0 in	-11%	52.4 in	-3%	49.2 in	-9%	53.4 in	-1%	49.6 in	-8%	49.6 in	-8%	
Height	58.3 in		58.3 in	0%	57.0 in	-2%	57.0 in	-2%	59.0 in	1%	59.0 in	1%	55.1 in	-5%	55.1 in	-5%	55.1 in	-5%	61.0 in	5%	61.0 in	5%	
Aisle Turn	118.0 in		Not Specified	#VALUE!	113.0 in	-4%	113.0 in	-4%	104.0 in	-12%	104.0 in	-12%	112.2 in	-5%	112.2 in	-5%	112.2 in	-5%	Not Specified	#VALUE!	Not Specified	#VALUE!	