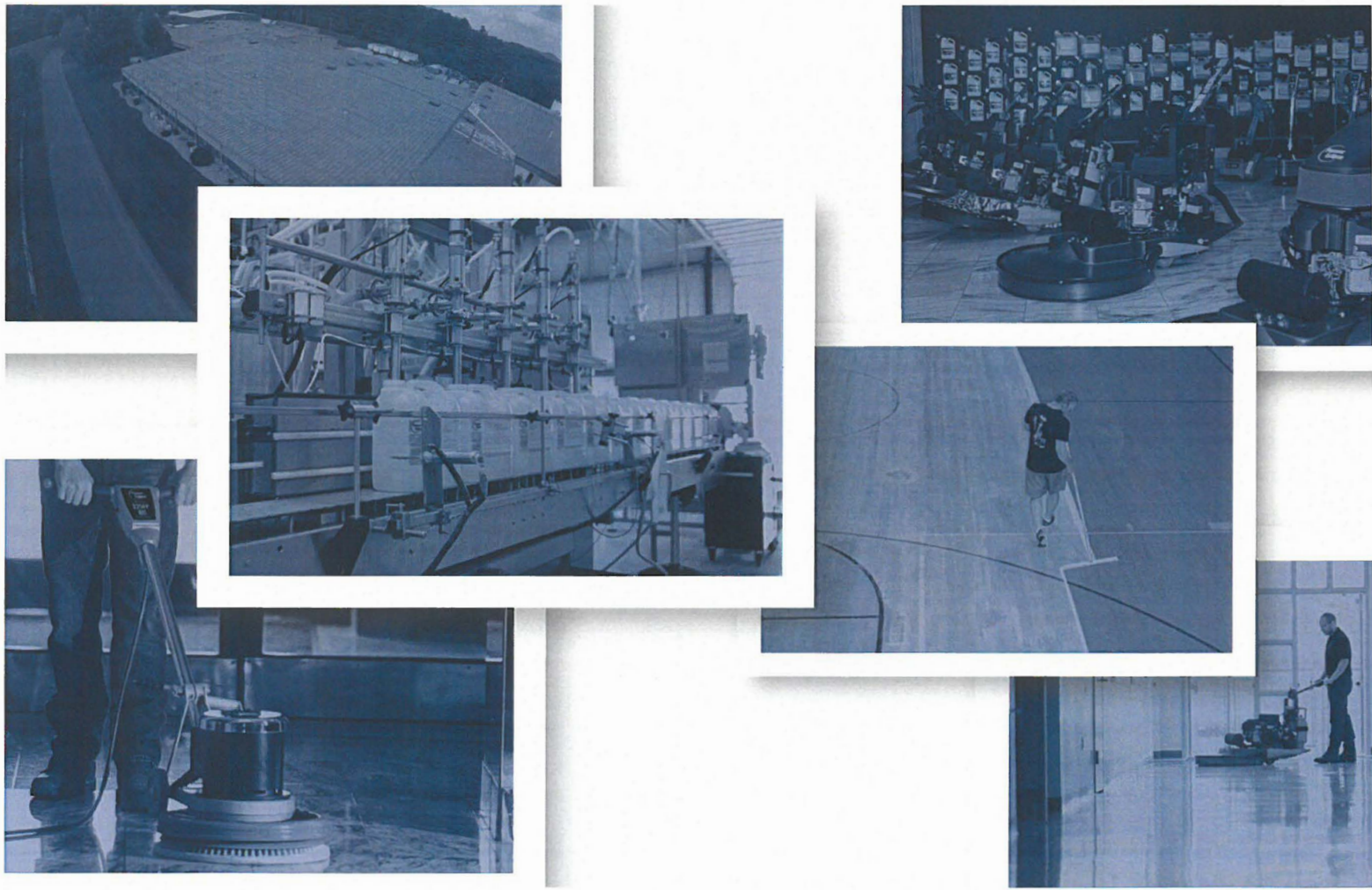




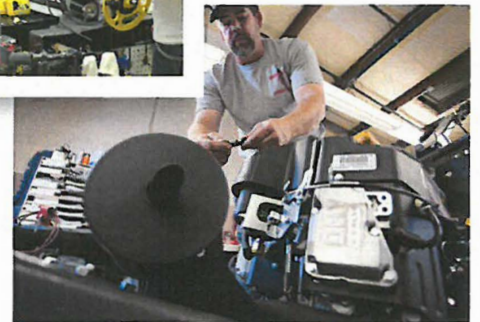
PRODUCT CATALOG

PUBLISHED SEPTEMBER 2018



www.pioneereclipse.com

MACHINES





BATTERY BURNISHERS



300BU & 300BU 30X

The 300BU and 300BU 30X are ultra-high speed (UHS) burnishers that rapidly produce high levels of gloss on VCT, polished concrete and other hard floor surfaces. All models are available in either pad assist or traction versions. Both burnishers feature SteadyOne™ technology that dramatically improves burnishing performance. SteadyOne™ uses advanced fluid drive technology to maintain constant pad pressure and produce more consistent results. Unlike other machines using spring mechanisms that vary when a metal coil compresses or extends, SteadyOne™ automatically adjusts the deck as the pad wears to apply the same pad pressure throughout the burnishing operation. Floor care professionals can now get the same one-pass results today...and tomorrow.

Our X₂™ technology on the 300BU 30X concentrates burnish energy in a much smaller area than a conventional round pad. The 30" wide machine, which is equipped with 2 x 16" X-pads, uses 58% less pad contact area to burnish, compared to a conventional 27" round pad. This means the 30X can do more work while consuming less energy. X₂ technology is patent pending. Available with lead-acid batteries or sealed batteries, the machine comes standard with an onboard battery charger.

	300BU	300BU	300BU 30x
Pad Size	20 in (51 cm)	24 in (61 cm)	2 x 16 in (41 cm) X-pads
Pad Speed	2000 RPM	1800 RPM	2000 RPM
Weight with batteries	600 lbs (272 kg)	610 lbs (277 kg)	663 lbs (300 kg)
Power supply	Three 12 volt, 228 AH batteries	Three 12 volt, 228 AH batteries	Three 12 volt, 228 AH batteries
Noise level	<67 db(A)	<70 db(A)	<70 dB(A)
Run Time	3 Hours	2.5 Hours	3 Hours



CORDED ELECTRIC BURNISHERS



225BU

The 225BU is a corded burnisher with an ergonomic design, rugged all metal construction and a 1.5 HP motor. Available with dust control.

Pad Size	20 in (51 cm)
Pad Speed	1500/2000 RPM
Cord Length	50 ft (15 m)
Weight	76 lb (35 kg)
Power Supply	110 V
Noise Level	62 dB(A)
Features	Non-marking wheels



CORDED ELECTRIC MACHINES

225FP



The 225FP is a corded floor care machine powered by a 1.5 HP UL approved high torque motor and equipped with a triple planetary gearbox. Available in two widths, 17" (43 cm) and 20" (51 cm), the 225FP can clean up to 6,000 square feet (557 square meters) and 7,000 square feet (650 square meters) of floors per hour, respectively. The machine comes standard with a pad holder and is also available with an optional 2.5 gallon (9,5 liter) solution tank.

Pad Size	17 in (43 cm)	20 in (51 cm)
Pad Speed	175 RPM	175 RPM
Cord Length	50 ft (15 m)	50 ft (15 m)
Weight	91 lb (41 kg)	95 lb (43 kg)
Power Supply	120 V	120 V
Noise Level	68 dB(A)	68 dB(A)



FM



The FM Floor Maintainer has a rugged planetary drive system with helical-cut gears with an ultra smooth power transmission. This versatile machine has an optional 4 gallon solution tank to help tackle larger jobs. The FM Floor Maintainer is built for decades of use with strengthened components such as the die cast aluminum housing, oversized bearings and seals in the gear box as well as large, durable wheels. The FM Floor Maintainer is available in 17 inch and 20 inch operating widths.

Brush Size	17 in (43 cm)	20 in (51 cm)
Brush Speed	175 RPM	175 RPM
Cord Length	50 ft (15 m)	50 ft (15 m)
Weight	102 lb (47 kg)	107 lb (49 kg)
Power Supply	115V/230V 1hp	115V/230V 1hp
Gear System	Dual planetary	Dual planetary



250ST



The 250ST is a high speed orbital machine designed for the toughest applications. The 250ST can be used for chemical free deep scrub applications and in conjunction with Pioneer Eclipse floor stripper for stripping jobs. A 2.5 gallon (9.5 liter) solution tank comes standard.

Pad Size	12" x 18" (30.5 cm x 45.8 cm)
Orbit speed	3,600 orbits per minute
Orbit diameter	¼" (6.4 mm)
Cord length	50 ft (15 m)
Weight	125 lb (57 kg)
Power supply	120 V
Noise level	75 dB(A)
Solution tank capacity	2.5 gal (9.5 liter)

PROPANE SAFETY FEATURES



We have built the safest propane powered machines for 40 years!

Below are some of the key points that separate us from the competition.

- 1 Proprietary carburetion is configured as a lean-burn system to reduce CO output
- 2 3-way catalytic muffler to reduce not only CO, but also NOx and HC
- 3 Fuel metering optimized for each machine
- 4 Cylinder head modifications for improved combustion
- 5 Re-gapped spark plugs that are optimized for propane ignition
- 6 Safe-Fill cylinders equipped with an over-fill prevention device
- 7 SAFR™ Technology keeps a Steady Air Fuel Ratio no matter the air filter condition.
- 8 EcoSense basic emissions monitoring system available on 400, 420, 430, & 450 series models.
- 9 SafeSense enhanced emissions monitoring system available on 440 series models.
- 10 SafeStop shuts down machine if improper propane cylinder use is detected.
- 11 Operator presence shut-down available on 440 series models.
- 12 Both online and classroom courses for propane machine certification.



The most common occurrence for increased Carbon Monoxide (CO) output from an engine is a dirty air filter. A dirty air filter restricts air flow, which causes the air-fuel mixture to richen, which then results in increased CO. The SAFR (which stands for Steady Air Fuel Ratio) Technology system monitors the pressure between the air filter and the carburetor. As the air filter becomes dirty, the pressure decreases. With SAFR™ technology, this change in pressure results in a reduction in fuel delivered to the engine. The net result is a Steady Air Fuel Ratio no matter the air filter condition.

We feel this technology is so important that it will be added to ALL new Pioneer Eclipse propane machines at no additional cost. Regardless of your application or model preference, you can rest assured your Pioneer Eclipse propane machine will be equipped with SAFR technology.



SAFESTOP

The patent pending SafeStop feature detects improper propane cylinder use, such as overfilled tanks or the use of a liquid-draw tank rather than a vapor-draw tank. If improper use is detected, SafeStop automatically shuts down the machine. This reduces the risk of the most common source of fire hazard when it comes to propane cylinder use on floor machines: overfilled or liquid-draw cylinders. This technology also reduces the possibility of elevated emissions, fuel system/engine/catalyst damage and the chance of a cylinder venting propane inside a building.

SafeStop is available as an option on propane burnishers and strippers and comes standard on concrete machines.



PROPANE MACHINES



420BU



The 420BU is a propane powered, ultra-high speed (UHS) burnisher that gives floor care professionals the options they want to customize a machine to their needs. The 420BU is available in four different widths and each model comes standard with a 12-volt onboard electric starter. Powered by an 18HP, 603 cc Kawasaki engine, the 420BU uses 34 percent less fuel and requires 40 percent fewer oil changes than other machines in its class. Available options include a passive vacuum, electric clutch, SafeStop, and EcoSense emissions monitoring system. Active vacuum is standard on the 40" model. The 420BU comes standard with SAFR™ Technology to keep CO levels low even with a dirty air filter.

Pad Size	21 in (53 cm)	24 in (61 cm)	28 in (71 cm)	40 in (102 cm)
Pad Speed	2000 RPM	1800 RPM	1500 RPM	1850 RPM
Weight	215 lb (97 kg)	221 lb (100 kg)	234 lb (106 kg)	340 lb (154 kg)
Noise level	<89 db(A)	<89 db(A)	<89 db(A)	<89 db(A)



Sentinel oil promotes better engine life and extends oil change intervals to 250 hours. For more information, see page 37.

PROPANE MACHINES



400BU



The 400BU is a propane powered, ultra-high speed (UHS) propane burnisher that gives floor care professionals the performance features of higher priced units in an affordable package. Available in two widths, the 400BU, powered by an 18HP, 603 cc Kawasaki engine, uses 34 percent less fuel and requires 40 percent fewer oil changes than other machines in its class. The 400BU is now available with optional EcoSense emissions monitoring system and SafeStop. The 400BU comes standard with SAFR™ Technology to keep CO levels low even with a dirty air filter.

Pad Size	21 in (53 cm)	28 in (71 cm)
Pad Speed	2000 RPM	1500 RPM
Weight	187 lb (85 kg)	200 lb (91 kg)
Noise level	<89 db(A)	<89 db(A)



440BU



The 440BU is a propane powered, ultra-high speed (UHS) burnisher manufactured with premium features to satisfy the needs of floor care professionals around the world. Replacing the popular SpeedStar™, the 440BU is available in three different widths. Each model comes standard with a 12 volt battery start, catalytic muffler, handle bail clutch, wrap around steel skirt, CentriVac™ dust control system and SafeSense™ emissions monitoring system. Powered by an 18-HP, 603 cc Kawasaki engine, the 440BU uses 34 percent less fuel and requires 40 percent fewer oil changes than other machines in its class. The 440BU comes standard with SAFR™ Technology to keep CO levels low even with a dirty air filter.

Pad Size	21 in (53 cm)	24 in (61 cm)	28 in (71 cm)
Pad Speed	2000 RPM	1800 RPM	1500 RPM
Weight	242 lb (110 kg)	248 (113 kg)	262 lb (119 kg)
Noise level	<89 db(A)	<89 db(A)	<89 db(A)



440ST



The 440ST is a powerful, propane powered floor stripping machine. The 440ST uses two counter-rotating drivers that effectively remove floor finishes faster than any other machine on the market. The Rok-bak™ feature allows operators to quickly change pads and brushes while its sleek, ergonomic design make the machine simple and easy to operate. The 440ST is the only option for high productivity floor stripping. The 440ST comes standard with SAFR™ Technology to keep CO levels low even with a dirty air filter.

Pad Size	2 x 16 in (2 x 40 cm)	2 x 20 in (2 x 51 cm)
Working Width	30 in (76 cm)	138 in (97 cm)
Pad Speed	325 RPM	325 RPM
Weight	365 lb (165 kg)	435 lb (197 kg)
Noise Level	87 dB(A)	87 dB(A)





CONCRETE PROGRAM

Pioneer Eclipse Offers a Comprehensive Concrete Polishing and Restoration Program

Many competitive product systems rely on the use of conventional floor scrubbers and polishers to restore gloss and have proven to be ineffective in eliminating the more challenging issues commonly associated with polished floors. Pioneer Eclipse's integrated system of products are specifically designed to easily and economically perform otherwise challenging restorative maintenance procedures.



Pioneer Eclipse's line of hard floor machines offers solutions for a wide range of customer needs. All hard floor machines come with onboard solution tank. The 450GP and 420GPHD propane machines come equipped with EcoSense emissions monitoring as well as SAFR Technology and SafeStop Technology. The electric 225GP offers a smaller footprint in an easy to transport machine. All concrete machines are easily run by a single operator.



The Pioneer Eclipse Concrete Chemical Program is a three step program that includes densifying treatment, hard floor protector and cleaner & maintainer for routine care.

CONCRETE MACHINES



420GPHD



The 420GPHD is the answer to hard floor maintenance. This propane powered floor care machines grinds, polishes, and burnishes hard floor surfaces such as concrete, marble, and terrazzo. Variable speed control (1000-1500 rpm), on board water supply, and a variety of diamond pads create an effective, efficient, and versatile system for professional building service contractors. Powered by an 18-HP, 603 cc Kawasaki engine, the 420GPHD uses 34 percent less fuel and require 40 percent fewer oil changes than other machines in its class. The PE420GPHD comes equipped with a weight bracket for maximum head pressure as well as a dust port to accommodate a vacuum hose for dry grinding. In addition, it comes standard with a heavy-duty diamond driver for traditional 3 inch, (83 mm) diamonds. The 420GPHD comes standard with SafeStop to ensure propane safety and SAFR™ Technology to keep CO levels low even with a dirty air filter.

	420GPHD
Driver Size	21 in (53 cm)
Pad Speed, Polishing	1000 RPM
Pad Speed, Burnishing	1500 RPM
Water Tank Capacity	7 US gal (26.5 liter)
Head Pressure	180 lb (82 kg)
Weight	380 lb (172 kg)
Noise Level	89 dB(A)





CONCRETE MACHINES

225GP



The 225GP utilizes a triple planetary gear drive powered by a 1.5 HP (1,1 kW) DC rectified motor with quick disconnect for easy troubleshooting and service. For added safety, the machine is equipped with a 40' power cord and GFCI. The enclosed 2.5 gallon (9,5 liter) solution tank does not spill water while changing attachments, and the integral splash/dust skirt contains splash and assists in dust collection. Ideal for use in small spaces or on floors that require light to moderate restoration and polishing.

Driver Size	17 in (43 cm)
Driver Speed	175 / 300 RPM
Weight	95 lb (43 kg)
Noise level	<65 db(A)
Water Tank Capacity	2.5 US gal (9,5 liter)

450GP



The 450GP is the pro's choice for any hard floor type. A walk-behind, single operator machine, the 450GP is ideal for coating removal, surface preparation (for coating applications), grinding, polishing, floor stripping and deep scrubbing. Variable engine speeds, vacuum dust port, removable weights and an on-board water supply allow the operator to adjust the performance parameters of the 450GP to meet the requirements of a variety of hard floor surfaces including concrete, terrazzo, marble, stone and quarry tile floor surfaces. The 450GP comes standard with SafeStop to ensure propane safety, and EcoSense emissions monitoring system and SAFR™ Technology to keep CO levels low even with a dirty air filter.

Driver Size	2 x 17 in (2 x 43 cm)
Pad Speed, Grinding	210 RPM
Pad Speed, Polishing	420 RPM
Water Tank Capacity	9 US gal (34 liter)
Head Pressure	200 lb to 500 lb
Weight	880 lb (399kg)
Noise Level	89 dB(A)



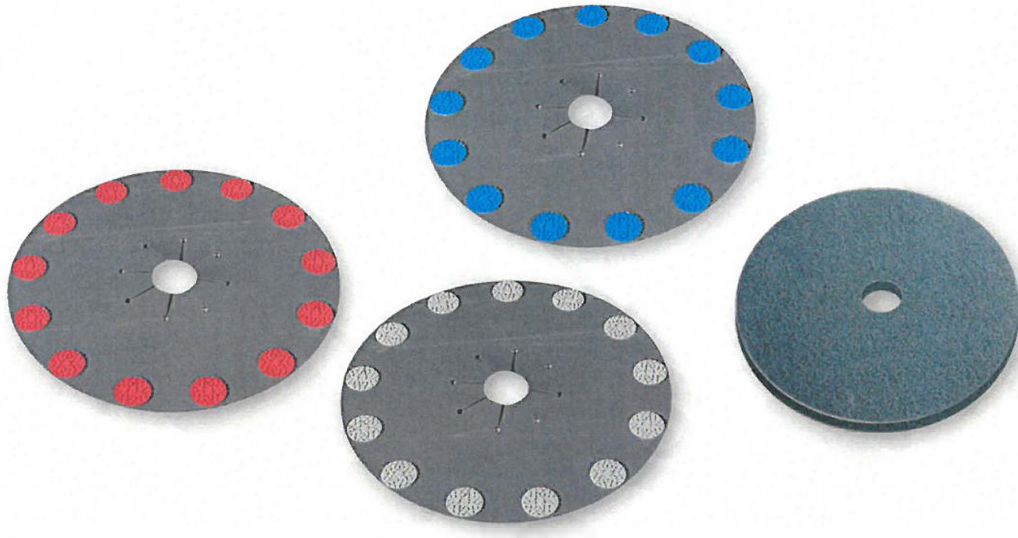
Sentinel Propane Engine Oil



Sentinel Synthetic Propane Engine Oil is designed to be used on Pioneer Eclipse machines. Specifically formulated for small, hot-temperature engines, Sentinel promotes better engine life and will extend oil change intervals from every 50 hours (standard with conventional oil) to every 250 hours.

Description	Synthetic Motor Oil
Appearance	Amber Liquid
Container	1 Quart

DIAMOND GRINDING & POLISHING TOOLS



GRIND

POLISH

BURNISH

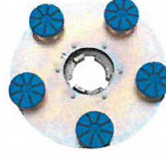
PAD NAME		GRIND					POLISH				BURNISH
		MOST ABRASIVE		LEAST ABRASIVE			MOST ABRASIVE		LEAST ABRASIVE		HIGH GLOSS
		LEVEL-S 30 SMETAL	LEVEL-S 50 SMETAL	LEVEL-S 100 SMETAL	LEVEL-S 200 SMETAL	LEVEL-S 400 SMETAL	LEVEL-S 400 RESIN	LEVEL-S 800 RESIN	LEVEL-S 1800 RESIN	LEVEL-S 3000 RESIN	POWERPOLISH
FLOOR STATUS*	UNFINISHED	●	●	●	●	●	●	●	●	●	●
	RESTORATION						●	●	●	●	●
	MAINTENANCE							●	●	●	●

* **Floor Status:** Unfinished - a new floor surface or a floor surface that has not been ground or polished.
 Restoration - a polished floor that shows surface wear and is unable to achieve acceptable gloss level from maintenance procedures.
 Maintenance - a polished floor that is unable to achieve an acceptable gloss level from daily cleaning procedures.



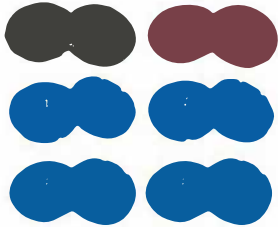
DIAMOND GRINDING & POLISHING TOOLS

Driver Size 16 in (406 mm)
Diamond Size 3 in (76 mm)
Weight 18 lb (8 kg)



HydraShine™

The HydraShine is a cost effective solution for polishing small areas and edges. A strong, six-bolt clutch plate construction transfers torque without the use of plastic coupling and a heavy gauge steel plate provides durability and aggressiveness. The HydraShine can be used with the 225GP, 225FP17, & FM1700.



Disc Size 3 in (83 mm)

Application

- Repair Repair damaged floor
- Prep Prepare floor prior to densifying
- Polish 1 Matte finish
- Polish 2 Semi-gloss finish
- Polish 3 High-gloss finish
- Polish 4 Ultra high-gloss finish

PowerPolish™ Discs

PowerPolish Discs provide an easy-to-use, cost effective system for repairing damage and restoring gloss to polished floors. Each 3" disc is labeled to eliminate errors and easily attached to the machine via hook and loop (no tools required). These discs can be used on the 225GP, 420GPHD, 430GP, 450GP and on the HydraShine Diamond Driver.

NEED DIAMONDS?

WE'VE GOT YOU COVERED

Whichever path you choose, Pioneer Eclipse has got you covered with industry leading tools and service. Whether it's a small project or a large one, we've got your floor care needs covered.



Diamond Tools

Pioneer Eclipse offers a professional line of diamond tools for hard floor polishing and deep grinding. There are also options for coating removal and surface prep. Paired with the technology of our concrete machines, these tools produce consistent and uniform results across all hard floors. Diamond tools come in a variety of segment configurations in metal, semi-metal and resin bond materials.

AUTOSCRUBBERS



310AS



This walk behind automatic scrubber has a proven design ideal for difficult applications. The 310AS has an auto brush coupling and release feature, as well as large tank openings for easy cleaning, filling, and operation. No matter what the job, the 310AS is tough enough to handle it.

Pad Size	20 in (50 cm)
Solution Tank	12 US gal (45 liter)
Recovery Tank	12 US gal (45 liter)
Power Supply	Two 12 volt, 150 AH batteries
Noise Level	72 dB(A)
Run Time	2-3 hours



315ASR



The 315ASR is the industry's most maneuverable ride-on floor scrubber. Fast, agile and efficient, this unit covers a lot of ground with operator ease and comfort. Large capacity tanks reduce downtime with less emptying and filling. Its simple design translates into more durability compared to the complicated competition.

Pad Size	2 x 15 in (2 x 38 cm)
Solution Tank	37 US gal (140 liter)
Recovery Tank	31.7 US gal (120 liter)
Power Supply	Four 6 volt, 250 AH batteries
Noise Level	Noise level: 70 dB(A)
Run Time	4 hours





WOOD FLOOR SANDERS

Super 7R Edger

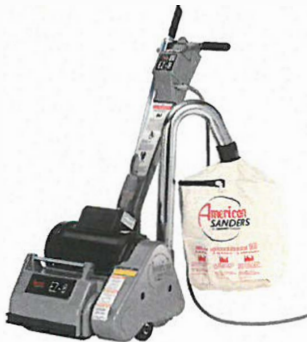


The Super 7R is a powerful, versatile, and easy to use wood floor edging machine that has earned a reputation as a reliable performer. The Super 7R is designed for productivity and dependability with rugged construction and precision fitted components.

Power Supply	120 V / 240 V
Motor	1 HP
Abrasive Size	7-7/8 in diameter disc
Disc Rate	2800 RPM
Disc Driver System	Gear driven
Dust Control Rate	110 CFM



EZ-8[®] Drum Sander



The EZ-8 comes apart easily for transportation to and from work sites and is equipped with an expandable drum which allows for easy sandpaper installation.

Power Supply	120 V / 240 V
Motor	1.5 HP
Abrasive Size	8 in x 19 in sleeve
Abrasive Rate	2830 ft/min
Drum Rate	1800 RPM
Drum Pressure	25 lbs
Dust Control Rate	76 CFM



OBS-18 & OBS-18DC Orbital Sander



Totally enclosed 1 HP dual capacitor motor is fan cooled to eliminate overheating. 3450 orbits per minute sands faster than any other orbital sander available. Heavy duty cast aluminum main frame and pad driver plate for added strength. Bristle dust skirt and independent dust pickup fan for effective dust containment. Torque-less operation for enhanced operator comfort.

Power Supply	120 V / 240 V
Motor	1 HP
Pad Size	12 in x 18 in
Orbits per minute	3600



DUST CONTAINMENT SYSTEMS



AVAC 2.2 Vacuum



The AVAC 2.2 Back Pack Vacuum, with lumbar support for added comfort, features soft start design and a large, 10-quart capacity tank. The AVAC 2.2 directs exhaust air up and away from both the floor and the operator.

Power Supply	120 V
Dust Capacity	10 quarts
Filtration	4-stage, H.E.P.A. optional
Weight	10.8 lbs. (4.9 kg)

AVAC 12 Vacuum

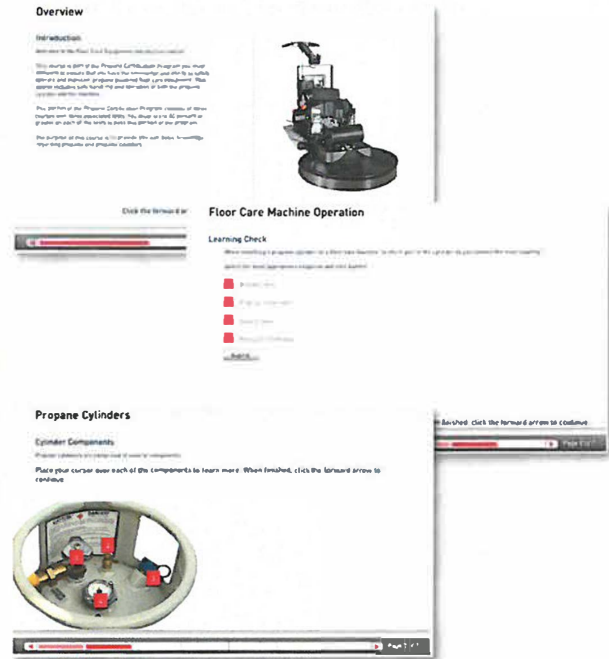
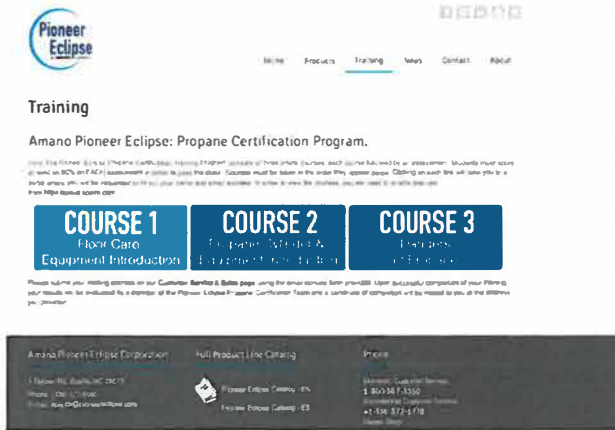


The AVAC 12 Dust Containment System offers high suction and exceptional filtration. Designed with non-marking grey wheels and casters, as well as a center mount locking inlet, the vacuum easily follows the operator while he/she works. The AVAC 12 comes standard with three levels of filtration as well as options for disposable paper bags and H.E.P.A filters.

Power Supply	120 V
Dust Capacity	12 gallons
Filtration	H.E.P.A. optional
Weight	42 lbs. (19 kg)



TRAINING



Propane Certification & Factory Certified Technician School

Pioneer Eclipse offers both propane certification programs and factory certified technician school.

Propane Certification

Our propane certification program includes instruction for the safe handling and operation of both propane cylinders and machines to ensure that users have the knowledge and ability to properly operate and maintain propane powered floor equipment. Pioneer Eclipse periodically offers in-person certification courses but users can go through the certification program at any time, and on their own schedule, through our online certification program. To learn more, please visit www.pioneereclipse.com and click on the training tab.

Factory Certified Technician School

Pioneer Eclipse is also proud to offer factory certified technician school. This 2 1/2 day course offers a comprehensive focus on propane powered equipment and the curriculum is designed to provide a working knowledge of all Amano Pioneer Eclipse floor care equipment.

Taught by expert Amano Pioneer Eclipse technicians, the technician school covers a full range of routine maintenance and service related topics. Training begins with basic technical theory and expands into performance tune-ups, propane safety, tearing down and rebuilding engines, machine troubleshooting, special tools and more. The training is designed to help technicians keep Amano Pioneer Eclipse equipment running at peak performance.

For more information on how to register for a technician school, contact your Amano Pioneer Eclipse sales representative or our Customer Service team at 800-367-3550.



PRODUCT CATALOG

Amano Pioneer Eclipse | 1 Eclipse Road, Sparta, NC 28675
800.367.3550 | +1 336.372.8080
www.pioneereclipse.com