



Hands-Free Cleaning®

AEROBOT 1850™

TRUE VACUUM - for carpeted surfaces



Ideal for **Retail | Office | Airports | Hospitality**

Powerful motors lift embedded dirt and debris that other systems miss. Carpets look better and last longer.



Cleaning just got easier:



Sensors provide 360-degree view that allows vacuum to operate Hands-Free. Just prep, point and go.



AEROBOT 1850™ is quiet, generating only 65 dBA during normal operation.



Large capacity vacuum bag and dual filters are easily accessible and can work a 4-hour shift without replacement.



No special training is required. The icon-based touchscreen prompts users through all functions, regardless of language or skill level.



Communicates with operator and generates detailed reports including login time, end of shift and areas cleaned.

The machines are operated by a unique icon-based touchscreen.



INTELLIGENT FEATURES

Main Computer	Monitors all functions; commands robot to perform stored cleaning routes
Drive Subsystem	Monitors and controls the robot's movement and position
Controls	Manual and autonomous
Navigation	15 sensors provide a complete, 360-degree view around robot
Front Touch Shield	Full width, black ABS, touch-sensitive shield provides immediate braking
Rear Touch Shield	Full width, black ABS, touch-sensitive shield provides immediate braking
Security	User-specific password protection to prevent unauthorized use
Safety Systems	Sonar obstacle detection, infrared floor sensors, touch shields, emergency stop button

VACUUM RECOVERY SYSTEM

Tank Volume	10 gal (38 liters)
Airflow Speed	67.8 CFM
Motor Type	Dual 24 VDC, 1/2 HP, two-stage tangential bypass in parallel
Vacuum Type	45.8" (116 cm) H2O sealed vacuum

CLEANING HEAD

Brush Head	Carbon-impregnated bristles, herringbone pattern
Brush Drive Motor	One 24 VDC, .5 HP, 1800 RPM, permanent magnet type, belt drive
Brush RPM	1390 RPM
Main Brush Width	28" (71 cm)
Side Brush Width	12" (30 cm)
Total Cleaning Path	32" (81 cm)

DRIVE SYSTEM

Drive Motors	Two 24 VDC precision motors, built-in encoders, high traction tread
---------------------	---

PRODUCTION

Cleaning Rate*	Approximately 10,000 ft (approx. 929 sq m) per hour (avg.)
-----------------------	--

BATTERY SYSTEM

Battery	Sealed gel cell deep cycle, 180 AH, 24 VDC output
Run Time	Approximately four hours
Optional Exchange Kit	Run time can be doubled with battery exchange kit that requires no heavy lifting
Charger Unit	20 amp, 24 VDC output; available in 115 or 230 VAC input options

CONSTRUCTION

Frame	Powder-coated 5052 aluminum and stainless steel
Exterior	High-density, molded, seamless polyethylene
Machine Length	50" (127 cm)
Machine Height	43" (109 cm)
Machine Width	34.5" (88 cm)
Machine Weight	607 lbs. (275 kg)

ENVIRONMENT

Temperature	59° to 86° F (15° to 30° C) operation, -22° to 140° F (-30° to 60° C) storage
Humidity	20% to 75% relative humidity
Noise	65 dBA normal operation



* Cleaning rate may vary, depending on environment