

Hylio ARES (HYL-150) Spec Sheet – US Customary Units

Aircraft		
Total Weight (without battery, without payload application equipment)	74 lb	
Maximum Recommended Takeoff Weight	233 lb	
Maximum Thrust	441 lb	
Maximum Operating Speed	30 mph	
Flight Time	Full Payload: approx. 8 min Mixed: approx. 12-15 min @ 25 lb/min payload application rate No Payload: approx. 20 min Flight times are affected by numerous conditions such as weather conditions,	
Maximum Flight Altitude	altitude relative to MSL, temperature, battery age/health, and other factors. 15,000 ft MSL Reduce payload by 12% for each increase of 3,000 ft in density altitude	
Wheelbase	85 in.	
Material	Carbon Fiber, Aluminum, Plastic	
Dimensions	67 x 67 x 43 in. (arms unfolded, no propellers)	
	45 x 45 x 43 in. (arms folded, no propellers)	
Spray System		
Maximum Payload (Weight)	110 lb (near sea level)	
Maximum Payload (Volume)	13 gal	
Total Rotary Atomizer Equipment Weight (incl. tank, pumps, plumbing, nozzles, mounting, etc.)	17.6 lb	
Total Hydraulic Nozzle Equipment Weight (incl. tank, pumps, plumbing, nozzles, mounting, etc.)	14.3 lb	
Liquid Payload Smart Tank Assembly Weight (13 gal – not incl. payload application equipment)	12.5 lb	
Nozzle Types	8 TeeJet style hydraulic nozzle tips; configurable (1 pair mounted under each rotor) 4 x Rotary Atomizers (1 atomizer mounted under each rotor)	
Pump System	Hydraulic Nozzle Configuration: 2 x 2 GPM (4GPM total) Diaphragm Pumps, 65 PSI Rotary Atomizer Configuration: 1 x 8 GPM Centrifugal Pump	
Flow Rate (no nozzle)	Hydraulic Nozzle Configuration: 0.4 – 4 GPM Rotary Atomizer Configuration: 0 – 8 GPM	
Flow Rate (with 8 x XR11004 nozzle tips)	3 GPM	
Flow Rate (with 4 x rotary atomizers)	6.9 GPM	
Effective Swath Width	Up to 40 ft	
Productivity Rate	Up to 70 ac/hr at 2 gal/ac	



Spreader System		
Maximum Payload (Weight)	110 lb (near sea level)	
Maximum Payload (Volume)	20 gal	
Total Granular Spreader Equipment Weight (incl. tank, spreader device, mounting, etc.)	13.2 lb	
Solid Payload Smart Tank Assembly Weight (20 gal – not incl. granular spreader device)	9.7 lb	
Optimal Particle Size	0.02 – 0.4 in.	
RPM Range	Up to 1600 RPM.	
Aperture Control	3 channels, allowing 0 – 174 deg total opening	
Effective Swath	Up to 40 ft	
Maximum Flow Rate	Up to 80 lb/min (dependent on material type)	
Device Dimensions	8 x 6 x 7.5 in.	
Productivity Rate	Up to 120 ac/hr at 20 lb/ac	
Particle Type	Hard materials such as silica can cause structural damage to the UAS itself and its components (such as the propellers). Use of hard materials will alter warranty terms; use at your discretion. See Operations Manual for more details.	
Propulsion		
Motor KV	45 rpm/V	
Foldable Propeller	56 x 20 in.	
Configuration	Quadcopter	
Operating Voltage	18S (66.6 V)	
Battery		
Battery System	1 x 18S 30 Ah (66.6 V) Intelligent LiPo Battery	
Battery Weight	31 lb	
Charger		
Туре	Dual Channel	
Input Voltage	100 – 240 V	
Output Power	9000W	
Compatibility	LiPo/LiHV: 12S - 18S	
Dimensions	16 x 9 x 12 in.	
Weight	31 lb	
Charging Current	Up to 120A single channel; Up to 60A per channel with two-channels running simultaneously	
Weather		
Ingress Protection Rating	IP55	
Maximum True Airspeed of UAS	45 mph True airspeed is the UAS's speed relative to the surrounding air mass, incorporating the effects of altitude, temperature, pressure, and other atmospheric conditions on air density	



Maximum Ground Speed of UAS	40 mph Speed relative to ground taking a blend of GPS speed and IMU data. Monitored and controlled by AgroSol GCS	
Communication & Control (Hylio GroundLink)		
Standard Control Device	Hylio GroundLink Controller	
Ground Station Control Software	Hylio AgroSol GCS; GroundLink Operating System: Windows 11	
Available Flight Modes	Swarm up to 3 units, fully autonomous, position hold manual, fully manual	
Operating Frequencies	2400 to 2480 MHz	
Wireless Transmission Range	Max Unobstructed: 18.5 mi Typical Rural Operation Setting: 3 mi With 4G SIM: Unlimited (wherever cellular coverage is available)	
Display	13.3" Sunlit Readable 1000 nits, 10-Point Touch Display	
Environment	IP67	
Battery	6-8 hours, Rechargeable Li-ion Battery Battery life dependent on factors such as screen brightness and level of activity	
Camera System		
Camera Platform	E-Con RouteCAM CU25	
Camera Sensor	AR0234CS from onsemi®	
Camera Video Output	1920x1080 60FPS	
Camera Field of View	158°(D), 134°(H), 73°(V)	
Camera Shutter	Global Shutter	
Camera Mount	3-axis, remote-controllable Hylio HYL GS-3 brushless motor gimbal	
Ingress Protection	IP67	
Regulatory		
Regulatory Compliance	FY2019 NDAA Sec. 889 Compliant; FY2020 NDAA Section 848 Compliant; FCC Part 15 Compliant	