



PEGASUS (HYL-030) Spec Sheet US Customary Units

Aircraft	
Total Weight (without battery, without payload application equipment)	13 lb.
Maximum Recommended Takeoff Weight	54.99 lb.
Maximum Thrust	154 lbf
Maximum Operating Speed	48 kph
Flight Time	Full Payload: approx. 8 min Mixed: approx. 12-15 min @ 5.5 lb/min payload application rate No Payload: approx. 20 min <i>Flight times are affected by numerous conditions such as weather conditions, altitude relative to MSL, temperature, battery age/health, and other factors.</i>
Maximum Flight Altitude	14500 ft MSL <i>Reduce payload by 12% for each increase of 3000 ft in density altitude</i>
Wheelbase	1.2 m
Material	Carbon Fiber, Aluminum, Plastic
Dimensions	4.75 x 4.75 x 1.5 ft (arms unfolded, no propellers)
	2.7 x 1.8 x 1.5 ft (arms folded, no propellers)
Spray System	
Maximum Payload (Weight)	21 lb (near sea level)
Maximum Payload (Volume)	2.5 gal
Total Rotary Atomizer Payload Dispensing Equipment Weight (incl. tank, pumps, plumbing, nozzles, mounting, landing gear, etc.)	11 lb
Total Hydraulic Nozzle Payload Dispensing Equipment Weight (incl. tank, pumps, plumbing, nozzles, mounting, landing gear, etc.)	10 lb
Nozzle Types	4 TeeJet style hydraulic nozzle tips; configurable (1 pair mounted under each rear rotor) 2 x Rotary Atomizers (1 atomizer mounted under each rear rotor)
Pump System	1 x 2 GPM Diaphragm Pump, 448 kPa
Flow Rate (no nozzle)	0 – 2.1 GPM
Flow Rate (with 4 x XR11004 nozzle tips)	1.6 GPM
Flow Rate (with 2 x rotary atomizers)	2 GPM
Effective Swath Width	Up to 20 ft
Productivity Rate	Up to 13 ac/hr at 2 gal/ac



Spreader System	
Maximum Payload (Weight)	21 lb (near sea level)
Maximum Payload (Volume)	4 gal
Total Granular Spreader Payload Dispensing Equipment (incl. tank, spreader device, mounting, etc.)	11lb
Optimal Particle Size	0.02 – 0.4 in.
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 10 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	100 rpm/V
Foldable Propeller	30 x 11 in.
Configuration	Quadcopter
Operating Voltage	12S (44.4 V)
Battery	
Battery System	12S 16 Ah (44.4 V) Intelligent LiPo Battery
Battery Weight	10 lb
Charger	
Type	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	72 kph <i>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</i>
Maximum Ground Speed of UAS	64 kph <i>Speed relative to ground taking a blend of GPS speed and IMU data. Monitored and controlled by AgroSol GCS</i>
Communication & Control (Hylío GroundLink)	
Standard Control Device	Hylío 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: 30 km Typical Rural Operation Setting: 5 km 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 <i>Battery life dependent on factors such as screen brightness and level of activity</i>
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