



DRONE VOLT

HERCULES SPRAY

The drone spraying solution

www.dronevolt.com

HERCULES 20 SPRAY

Low-Pressure Spraying solution



Hercules 20 Spray

Equipped with a 3- or 4-nozzle spray tool. Other specific tools developed on request, after preliminary study.

SPRAY SYSTEM



- | Spray Motor Pump (81L | Option: 120L)
- | Motor Pump Pressure: 25 bar max
- | Operating pressure with hose installed: 10 bar

Powerful

The Hercules 20 can lift up to 15 kg and carry a wide variety of payloads.

Resistant

Its carbon fibre frame and anodised aluminium fixings make the Hercules 20 extremely durable.

Light and compact

With its 4 removable arms, landing gear and payload, the Hercules 20 is easy to carry.

FEATURES

EFFICIENT OPERATIONS

With the motor pump system, the drone sprays up to 18 litres of liquid per minute for faster and more effective treatment than manual spraying

PRECISE SPRAY

The drone is designed for the precise spraying of liquid products for the treatment of surfaces, roofs, facades and solar panels. It offers a new treatment solution for many applications.

REDUCED RISK

The drone allows quick and easy access to inaccessible and dangerous areas. It is operational in 10 minutes and reduces equipment installation.

APPLICATIONS

ROOF CLEANING



SURFACE CLEANING



SOLAR PANEL CLEANING



REMOVABLE SYSTEM AND ULTRA TRANSPORTABLE

The drone is equipped with connectors for quick and easy disassembly of arms and landing gear.



HERCULES 20
HIGH-DRA

High-Pressure Spraying solution

High payload capacity

One of the market's most powerful drones with a lifting capacity of 15 kg.

Lightweight hose

The drone is equipped with a special high-pressure, lightweight hose for unique and easy handling.

250 Bar high pressure

Our high-pressure system is designed to spray liquids up to 250 bar (5 to 50 L/min)

Ease-in technology

The drone comes with technology that gradually increases the pressure, thereby ensuring the drone's stability.



HIGH-PRESSURE SYSTEM

Our powerful high-pressure system can handle tough dirt and stains on building facades and roofs. It comes with a user-friendly pressure adjustment feature, ensuring optimal cleaning results without damaging delicate surfaces.

Its compact design make it a game-changer in aerial cleaning services, providing unparalleled efficiency and adaptability for maintaining the pristine appearance of buildings and structures.

- Maximum pressure: 250 bar
- Adjustable pressure output
- Ideal for cleaning infrastructures, facades and roofs
- Many configuration options available to meet the most specific requirements



CLEAN ASSIST

The optional **Clean Assist** function is designed to facilitate high-pressure cleaning operations, offering precise and safe control.

Using a hyperfrequency radar installed directly on the spray nozzle, this system detects obstacles in front of the drone. It acts as a **frontal anti-collision system**, enabling the drone to maintain a safe distance from the surfaces to be cleaned, which can be adjusted via the radio control system.



DRONE VOLTI

HERCULES 20
HIGH-DRA

APPLICATIONS

SURFACE CLEANING



WIND TURBINE CLEANING



SOLAR PANEL CLEANING



INFRASTRUCTURE DE-ICING



COMPACT DESIGN

The Hercules 20 High-Dra Cleaning System is engineered with a compact design, and dimensions equivalent to a standard EU pallet. This smart design ensures optimal mobility, ease of use, providing a versatile and efficient cleaning solution.

- | Total weight: 430 kg
- | Easy to handle and operate
- | 20-liter fuel tank for uninterrupted operation

REMOTE-CONTROLLED AUTOMATIC ROLL-UP HOSE

Our Hercules 20 High-Dra Cleaning System features a remote control that enables you to manage the hose length from a distance, ensuring precise control and hassle-free operating of the drone during cleaning tasks. This advanced feature not only saves time but also enhances safety.

- | 70-meter hose length (60m usable meters)*
- | Lightweight, high-quality hose material
- | Remote-controlled roll-up hose

* 50 m of hose have a mass with liquid of 7.5 kg.



MULTIPLE CONFIGURATION

Tailor your drone cleaning solution to your most specific needs with a wide range of options available for the spray system.

Optimise your standard configuration by integrating additional equipment such as a reverse osmosis filter, an ion exchange resin filter, a boiler (hot water to steam), a transport trailer, or a larger capacity tank.

Each component is designed to maximise efficiency and adapt to the unique challenges of each cleaning mission.





	HERCULES 20 SPRAY		HERCULES 20 HIGH-DRA		
AIRCRAFT	Dimensions: 1000 x 1000 x 600 mm				
WEIGHT	Weight (without battery): 11 kg				
	Max take-off weight (MTOW): 25 kg				
BATTERIES	Quantity: 4				
	Capacity: 65 17000 mAh				
SPEED	Operational speed: 20 m/s (72 km/h)				
	Wind resistance: 14 m/s (50 km/h)				
OPERATING TEMPERATURE	-5°C / +30°C (20°F / 86°F)				
FLIGHT TIME	Max Flight time (no payload): 40 min				
SPRAY SYSTEM					
	Spray motor pump	Pack 1 - High-Dra	Pack 2 - High-Dra + Hotbox	Pack 3 - High-Dra + Deionized Water or Reverse Osmosis	Pack 4 - A.I.O. (All-In-One)
Spraying tool	Spraying tool with 4 or 3 adjustable nozzles	2 x medium pressure 2 x high pressure 2 x foam nozzles	2 x medium pressure 2 x high pressure 2 x foam nozzles	2 x medium pressure 2 x high pressure 2 x foam nozzles	2 x medium pressure 2 x high pressure 2 x foam nozzles
Pressure	10 bar (362 PSI)	250 bar (3625 PSI)	250 bar (3625 PSI)	250 bar (3625 PSI)	250 bar (3625 PSI)
Adjustable pressure	Yes	✓	✓	✓	✓
Hose length	60 m (50 m usefull)	75 m (60 m useful)	75 m (60 m useful)	75 m (60 m useful)	75 m (60 m useful)
Weight	35 kg	430 kg (excluding packaging and accessories - depending on options)	550 kg (excluding packaging and accessories - depending on options)	530 kg (excluding packaging and accessories - depending on options)	650 kg (excluding packaging and accessories - depending on options)
Dimensions	147 (L) x 70 (l) x 45 (h) cm	EPAL Format: 120 (L) x 80 (W) x 155 (H) cm	147 (L) x 120 (W) x 155 (H) cm (excluding flue gas chimney)	230 (L) x 80 (W) x 155 (H) cm	230 (L) x 123 (W) x 155 (H) cm (excluding flue gas chimney)
Tank capacity	81 L	300 L or 600 L (standard)	300 L or 600 L (standard)	300 L or 600 L (standard)	600 L (standard)
Water filter	Yes (x2)	✓	✓	✓	✓
Chemical injector	/	single 0 to 5% or dual 0 to 15% (with By-Pass)	single 0 to 5% or dual 0 to 15% (with By-Pass)	single 0 to 5% or dual 0 to 15% (with By-Pass)	single 0 to 5% or dual 0 to 15% (with By-Pass)
Reverse osmosis filter	/	/	/	✓	✓
Osmosis water tank (300 L)	/	/	/	✓	✓
Hotbox	/	/	✓	/	✓
OPTIONAL	Spraying tool with 4 or 3 adjustable nozzles	2 foam spray nozzles (included in A.I.O.) Spraying tool with rotating nozzle Customized spray tool Reverse osmosis filter or deionized water filter (depending on configuration) Hotbox (30°C to 150°C) Hose length up to 100 meters: please note that the hose weight is 7.5 kg every 50 meters. Do not exceed the Maximum Take-Off Weight (MTOM) of 25 kilograms (unless otherwise stated). Tank capacity: 300L/600L/1000L Dual injector (0 to 15%) with By-Pass High-pressure handle Transport trailer			
	Customized spraying tool				
	Tank capacity: 120 L				

DRONE VOLT®

14, RUE DE LA PERDRIX, LOT 201
93420 VILLEPINTE, FRANCE

+33 1 80 89 44 44
contact@dronevolt.com

WWW.DRONEVOLT.COM

GICAT
MEMBER

Label
France
RSE
Pour les
Entreprises
Engagées RSE

La
FRENCH
FAB



Our drones are based on more sustainable electrical technology. They generate 0% CO2, in use, and thus help reduce the environmental impact of our partners.