



## Aircraft Cleaning & Deicing System (ACDS)

Contact: Andrew M. Lauten  
Phone: 269.767.4619  
Email: [Andrew.Lauten@Riveer.com](mailto:Andrew.Lauten@Riveer.com)

### Challenge

The constant threat of corrosion requires maintainers to perform both airframe washes, and turbine engine flushes on varying airframes. With varying airframe sizes and engine types, AGSE fleets have been forced to inventory different systems for both operations causing redundancy in the fleet and higher maintenance costs.

When it is time to deploy, many systems fall short in transportability capabilities, as their large sizes prohibit internal transport in anything smaller than a C-130. Likewise they are plagued by cold weather on base or on deployment, as prohibitive winterizing procedures lead to freeze damage renders the equipment inoperable and in need of Motor Pool attention.

### ACDS Solution

Riveer's Aircraft Cleaning & Deicing System delivers airframe wash, engine wash and deicing capabilities for both rotary wing and fixed wing aircraft including H-47, H-58, H-60, H-64 and C-130 in one, compact package. Built on an AGSE style chassis, the ACDS is designed for internal transport in a CH-47 and single pallet placement in larger cargo aircraft formats.

Compared to belt driven and direct coupled pump systems, the ACDS is hydraulically powered to allow for one button winterizing, and freeze protection modes for cold weather operations. Total hydraulic power provides greater interoperability with existing Motor Pool maintenance inventories and skill sets.

### Result

- Consolidated AGSE inventory with universal solution for airframe wash, turbine wash, and deicing operations
- Greater deployability with CH-47 internal transportability
- Long term reliability and motor pool interoperability with hydraulic power
- Increased readiness through self winterizing and reduced freeze damage
- Greater environmental protection with full enclosure and stainless steel internals

