

## DIESEL EXHAUST FLUID (DEF) SYSTEMS

### SUPPORTING SAFE AND EFFICIENT FUELING OPERATIONS

In 2021, Terra Water Systems (Terra) partnered with Raceline Design to design and fabricate a line of Diesel Exhaust Fluid (DEF) storage and dispensing units to be deployed at various location across Canada. The custom engineered units are designed to serve a range of applications, such as retail truck stops, agricultural and commercial stations, and oil and gas industries.

### TERRA'S DEF UNITS

Our self-contained DEF units are an efficient bulk fueling solution that allows businesses to keep their diesel-powered equipment running smoothly. Bulk filling helps lower operating costs while eliminating waste produced from traditional filling methods. The need for onsite small volume container handling and storage is eliminated ensuring a safer and cleaner facility.

Field-ready and engineered for easy transportation and installation, users become their own DEF provider, so their equipment operators can spend more time on the road and less time and money than at the retail pump.

The all-weather DEF units provide an above ground storage solution, ready to endure harsh cold weather conditions without fear of freeze damaged products. The integrated Wi-Fi thermostat can connect into nearby wireless networks and users can monitor in unit temperatures remotely.





## SYSTEM FEATURES

- All weather building constructed of urethane insulated galvalume panels
- Forklift loadable, insulated skid for ease of transport and onsite installation
- 5000L / 1100 imp gallon internal storage capacity (optional 6000L version)
- Industry standard Wayne Select DEF dispenser with top bezel display
- Pulse output boards
- Standard Blue Diver 1200 submersible transfer pump
- Internal DEF filter
- Stainless steel piping
- 2" dry break fill port adapter
- High level DEF tank indicator with audible alarm for additional safety
- Dual heaters to easily withstand harsh climate conditions
- Heated hose cabinet with Ovation hose hanger
- DEF dispenser nozzle, Ø3/4"
- Dispenser hose reel, Ø3/4" x 20 ft
- Pre-wired electrical components certified to CSA SPE-1000 standards
- Conforms to ISO 22241-3,4 standards
- Wi-fi compatible thermostat for external monitoring
- Customized parts and materials based on clients' needs

## SPECIFICATIONS

- Electrical supply:
  - 240 volt
  - 100 amp
  - 1 phase
- Dimensions:
  - 60" x 180" x 106"
  - 1.5m x 4.6m x 2.7m
- Approximate dry weight:
  - 5,000lbs
  - 2,300kg
- Wet weight:
  - 17,000lbs
  - 7,700kg





## ABOUT TERRA WATER

With over 20 years partnering with clients across North America, Terra Water has built a reputation as the go-to experts for high performing, reliable solutions that support effective operations. We understand the rigors of the work environment and importance of meeting regulatory compliance, safety standards and performance metrics.

We also know that no two applications are alike. From concept, to design, to in-house engineering, manufacturing, install and maintenance, we approach each challenge driven to deliver full-service, simple solutions that provide long-term value.



## ENGINEERING

Terra's in-house engineering, drafting, and manufacturing services ensure our equipment effectively meets the operational and regulatory requirements unique to our client's projects, whether it's a sale item or as part of our rental fleet. We also provide Standard Operating Procedures and engineered drawings to ensure code compliant operations.



## FABRICATION

Terra utilizes in-house fabrication facilities in order to ensure quick production times. Our CWB certified welding, sandblasting and painting facilities, fabrication and assembly lines follow stringent HSE requirements that produce consistent high-quality products. Utilizing our in-house engineering and fabrication processes, Terra customizes solutions for every application to best meet site-specific requirements.

