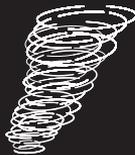


TORNADO TANK CLEANING SYSTEM



"I was looking for an add-on service that would improve my bottom line, improve customer loyalty and keep my staff busy. Tank cleaning with the Tornado was the answer I was looking for. By maintaining our customer's fuel tanks, we have built customer loyalty, made money and seized an opportunity."

Scott Burnside
Manager, Compliance Services, CGRS Inc.
Fort Collins, CO

"The training, the customer support and the reliability of the equipment is what really sets the Tornado apart from its competitors."

Mike Long
Service Manager, Cashman Equipment
Sparks, NV

"The quality, the reliability and the ability to make money are the reasons I chose the Clarus system. Now after 5 years I realize they also have excellent technical support and customer service too."

David Blue, Mobile Filtration
San Diego, CA

"To count on uninterrupted power, we must have both clean fuel and clean tanks. In some of our locations, that can prove to be a real challenge. The Clarus equipment delivers great, dependable service, and leaves us with our original inventory of fuel for re-use."

Mike Garrett
AT&T Cellular

T-11
DIESEL FUEL
5000 GAL.



CLARUS
TECHNOLOGIES

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TORNADO TANK CLEANING SYSTEM

The Tornado is a *state-of-the art tank cleaning system* that uses three stages of filtration, high volume flow rates and variable speed to create *a new standard in tank cleaning.*



Three stages of filtration

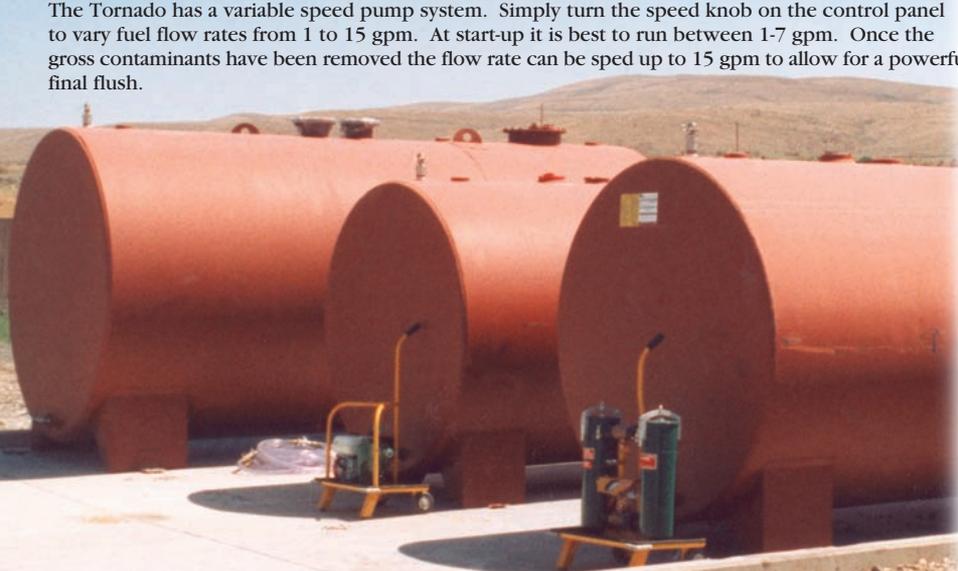
1 Gross Particulate removal
The Tornado features a proprietary duplex bag filter assembly that removes particulate down to 10 microns in size. This duplex system allows for continuous tank cleaning with its alternate chamber flow configuration. One chamber is always in use while the other is being changed out.

2 Fine Particulate Removal
The second stage is a high capacity filter element that filters down to 1/2 micron. At this level of ultra-fine filtration, particulate and even the micro-organisms are filtered out.

3 Water Removal
The Tornado's final stage of filtration removes water using a coalescer/separator filter combination that removes 99%+ of water from fuel at a rate of 15 gpm. This filter combination meets the API 1581 standard and is the same water removal process used for refueling military aircraft and the commercial airliners you fly on.

High volume flow rates / Variable Speed Processing

The Tornado has a variable speed pump system. Simply turn the speed knob on the control panel to vary fuel flow rates from 1 to 15 gpm. At start-up it is best to run between 1-7 gpm. Once the gross contaminants have been removed the flow rate can be sped up to 15 gpm to allow for a powerful final flush.



Fluids processed with the Clarus

Tornado
Heating Oil
Diesel Fuel
JP-8
Solvents (minimum 104°F flash point)
Hydraulic Oil (with optional oil filter cart)
Turbine Oil (with optional oil filter cart)



Sight-Glass
See the contamination when the job starts and watch the fluids turn clean when finished.



Duplex Handle
Activate a clean bag filter while isolating the dirty side for easy change-out.



A Tornado bag filter can be changed in under 15 seconds.



The high efficiency filter cartridges are easy to change-out with the Tornado "no tools required" design.

Clarus Tornado Specifications:

Three-stage filtration system
0.5 micron particulate removal
Water removal by coalescer/separator
Sight-glass – Pyrex
0-65 psi operating pressure
1 inch Inlet size
3/4 inch Outlet size
1 Gallon sump capacity (water)
All NEMA-4 (weatherproof)
Pressure gauges for:
Prefilter stage differential
Particulate stage differential
Pump pressure
Inlet vacuum



TIG welded aluminum
8 inch pneumatic wheels with brakes
Oven-baked polyester powder coat finish
Height/width/length (inches) 46/30/42
Approximate net weight – 325 lbs
Single phase, 115V, 60Hz, 15A
Positive displacement pump
Variable flow 0-15 GPM
Mechanical bypass (overpressure)
High quality stainless steel/aluminum parts

The Tornado includes a durable spill mat that folds for convenient storage.