

The Next Generation of Direct Drive Truckmounts

# CDS xDRIVE

XCELERATED DRIVE SYSTEM

**NEW!**



- ✗ Installed in a Ford Transit
- ✗ xDrive XCELERATED Drive System
- ✗ Patent Pending Design and Engineering
- ✗ Soft Start & Soft Shutdown System
- ✗ Arm's Length access and serviceability, constructed for ease of installation
- ✗ "BOOST" setting for those challenging cleaning jobs



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# The Next Generation of Direct Drive Truckmounts

## CDS xDRIVE XCCELERATED DRIVE SYSTEM



Gone are  
up drive  
xDrive  
nothin

### How Does The CDS xDrive Power Delivery System Work?

The **CDS xDrive** will revolutionize direct drive and PTO truckmounts in the cleaning and restoration industry with **computer programmed operational precision**.

The **CDS xDrive** uses the power and heating source already provided by the host vehicle engine.

The concept behind the revolutionary, game changing technology of the **CDS xDrive** lies in the **XCCELERATED** Drive System. Power delivery and performance is no longer measured by horsepower.

The **XCCELERATED** Drive System is a state-of-the-art technology that uses a specially designed generator to transfer energy to a computerized power monitoring controller. **This collected energy is delivered at precise pre-programmed consistent levels** to an electric motor. The electric motor powers a shaft and belt system delivering consistent **direct non-fluctuating energy to the vacuum blower and solution pump**.

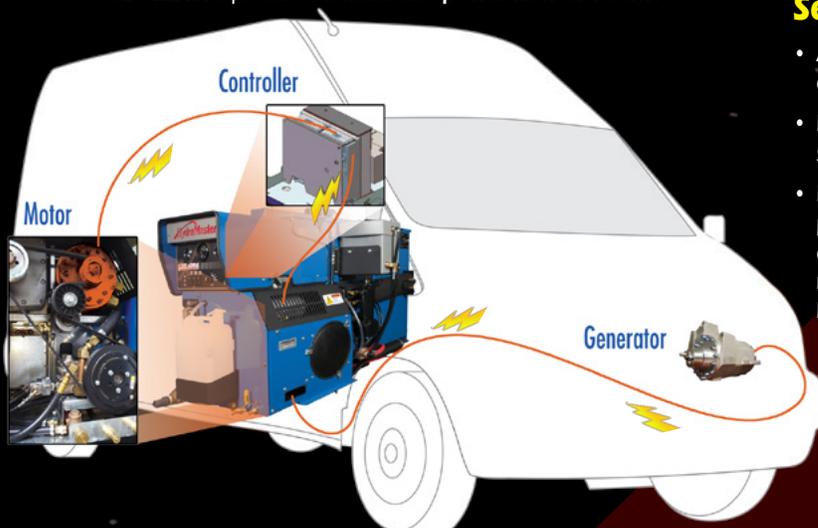
This patent pending design provides the most consistent power delivery control to the **vacuum blower and other major components of ANY truckmount** — slide-in or direct — **providing your customers with faster drying times and more consistent cleaning!**



This computerized system provides a higher level of consistent energy transfer than a drive shaft or power take off system, reducing the fluctuations in vacuum blower airflow production for a more consistent cleaning and drying performance.

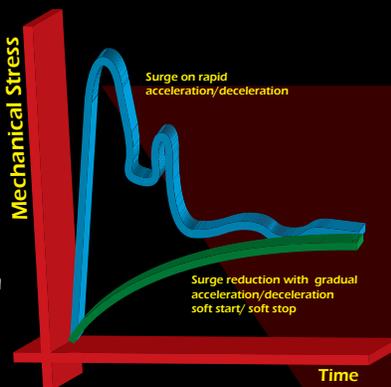
Essentially, a drive shaft or power take off system has been replaced with precise, computerized electric energy delivering system. **The wear and tear on the engine of the van is reduced.**

Power is no longer measured in RPM's and Horsepower. These measurements have been replaced with **wattage generation**. The **CDS xDrive** produces a maximum power flow of **18 Kw**.



### Soft Start – Soft Shutdown System for Smoother Operation

This computerized power system provides a soft start to ramp up the RPM to the vacuum blower and a soft shutdown to ramp down the RPM. This smoother delivery **extends the life of the vacuum blower and puts less stress on all major components.**



### Designed for Modularity

- Self contained powerpack unit is **compatible with various tank sizes and layouts**



- **Flexible power connection** between front end generator and rear end power delivery system **provides installation flexibility**

### Constructed for Ease of Installation

- All components, including heat exchanger and noise suppression silencer, are **built into the drop in console** connected to waste tank, **maximizing cargo space**
- Front end power generation unit mounts on existing alternator mount and **requires no permanent modification to vehicle**

### “Arms - Length” Access and Serviceability

- Automatic belt tensioner allows **easy belt changes and alignment**
- **Improved access** to blower, solution pump, and filters
- Eliminated drive shaft and pillow blocks (as compared to conventional direct drive units) **reduces need for associated lubrication and maintenance**



the days of tensioning v-belts, lining shafts, replacing couplers. With the system maintenance is reduced to g more than regular oil changes.



Specifications

## How Does the CDS xDrive Heating System Work

The **CDS xDrive** employs a **multi-stage thermal accumulation and heat exchanger system** to create a **consistent hot cleaning solution temperature** that maximizes at 235 degrees

Fahrenheit and can consistently maintain 180-210 degree temperatures at a constant solution flow of 1.25 GPM. The first heat exchanger system employs a tube and shell heat exchanger that transfers the hot solution generated by the **host vehicle engine**. The second stage of the system

captures the direct heat being generated by the **vacuum blower that employs a fin and tube heat exchanger**.



## Durable TriFlow Gardner Denver 408 Tri-Lobe Blower

- Delivers **superior CFM production** reducing drying times and increasing water extraction capability
- **Dual oil bath splash lubrication** design with sight level windows for **easier maintenance and superior durability**
- Patented Tri-Lobe design for **quiet operation and low pulsation**
- Independent oil sumps prevent cross-contamination and allow the vacuum pump to operate safely on an incline
- Produces vacuum at 14" Hg and flows up to 438 CFM.



## General Emperor HTXS Series High Performance Solution Pump

- 4.0 GPM solution pump with **smoother operating 3-stage plunger design**
- Operator adjustable pressure from **0 to 1200 PSI**
- **Last step chemical pulse pump/chemical injection** means no chemicals pass through the water pump or heat exchangers
- **Electric clutch controlled** for smooth solution delivery for restoration work or flood recovery
- Uses patented "high-tech" packings for **increased reliability and longevity** along with nickel plated valve plugs and manifold
- Specifically designed for the **rigorous on-off flow cycles and higher ambient temperatures on a truckmount**



## CDS xDrive provides you with a BOOST setting for those especially challenging jobs.

The proprietary BOOST setting is the first of its kind for a direct-drive truckmount. It allows your truckmount to maximize blower speed to optimize system performance. If you need more vacuum cfm, more vacuum lift, and maximum solution temperature, the BOOST setting is ready for you!



The precision controller automatically safeguards against overheating and maintains reliable operating conditions under extreme conditions. You don't have to worry about anything other than cleaning those trashed carpets and hard surface floors or extracting those big floods.

## State-of-the-art technology demands a state-of-the-art van for the cleaning and restoration professional — THE FORD TRANSIT!

- Lightweight, unibody construction
- 3.7L TI-VCT V6 gas engine — responsive V6 performance
- Front, rear, and side rails welded with the floor plan, cross-members and torque boxes forming a single body
- Smart technology — standard rear-view camera, AdvanceTrac® with Roll Stability Control™, driver and passenger front airbags, and side airbags

\*The CDS xDrive must be installed in a 2016+ T250 or T350 Ford Transit. It can be the low, middle, or high roof option. It must be the 3.7L gas engine and have the 53K option



## Here's What Cleaning Companies Who Own a Ford Transit are Saying!



"Saves me over \$600 per year in fuel costs."

"Love the roof height. I can stand up!"

"Excellent turning radius."

"Modern look and sleek appearance."

"Love the power, smooth ride, low deck, and LED package lights up my truck."

"Maximum space!"



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# CDS xDRIVE

XCELERATED DRIVE SYSTEM

## CDS xDrive

- xDrive Power Delivery System
- Gardner Denver #408 Tri-Lobe Blower
- Thermal Accumulation Heating System
- Soft Start / Soft Shut down
- 1200 PSI Pump
- Residential, Large Commercial
- Longer Hose Runs
- 400+ CFM
- 775 lbs



## Standard Equipment

- Runtime hour meter
- Chemical flow meter (0-10 GPM)
- Chemical flow control valve
- Vacuum gauge (0"-30" Hg)
- Solution pressure gauge (0-1,500 PSI)
- Solution pressure adjustment
- Pre-wired pump-in switch
- Pre-wired APO Switch/APO outlet
- Fresh water inlet
- Water system drain valve
- Blower tachometer (0-3,500 RPM)
- Electronic throttle control
- Electrical circuit protection (resettable)
- Solution pump switch
- 4 speed control
- CDS Power Transfer package
- Top-mounted gauge cluster & control console
- Dual wand solution connections
- Dual wand vacuum connections
- Freeze guard system
- Safety wheel chocks
- One HydraMaster Evolution wand
- 10 ft x 1 1/2" whip line
- 10 ft x 1 1/2" drain line
- 150 feet High Performance Solution/Vacuum Hoses
- Garden Hose
- Chemical jug holder
- 2.5 gallon chemical jug
- Operation & maintenance manual
- Embroidered HydraMaster jacket
- Van decal
- 3 Year Warranty

# Specifications/Performance Ratings

	CFM		Vacuum		Solution Temperature		Solution Pressure*	Fuel Consumption	Kilowatts		Wands
	Max	Average	Max	Average	Max	Average			Max	Average	
BOOST	456	369	14" Hg	12" Hg	240°F	210-220°F	0 to 1,200 PSI	1.95 GPH ↑ ↓ 1.48 GPH	14.5	12.7	Dual
HIGH	424	337	14" Hg	12" Hg	240°F	210-220°F			13.4	11.9	Dual
MID	392	305	14" Hg	12" Hg	230°F	210-220°F			12.6	11.1	Single
ECONOMY FUEL SAVER	360	286	14" Hg	10" Hg	220°F	200-220°F			11.6	9.1	Single

\*Economy setting not recommended for hard surface cleaning