

## **CUSCO**<sup>TM</sup>

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wastequip-cusco.com



Your toughest jobs just got easier with Cusco's Turbovac truck series. Built to perform, Cusco's Turbovac series will handle heavy sludge, slurries, and liquid waste without compromise. With cyclonic filtration technology, airflow ratings of 1,800 CFM to 5,500 CFM, and powered with 28" Hg of vacuum, the Turbovac series is your solution to handling hazardous and non-hazardous waste removal and environmental remediation.

## **Features**

- ▶ Positive displacement blowers
- ▶ Heavy-duty hydraulic vibrator
- ▶ Pressure off-loading system
- ▶ Rear door valves
- ▶ Sand pipe to carry solids to the front of the tank
- ▶ Internal shut-off to prevent fluids from entering the vacuum pump
- ▶ Rotary float gauge
- ▶ Isolation valve
- ▶ Tank pressure relief valve
- ▶ Cyclone assembly
- ▶ System pressure relief valve
- ▶ Vacuum relief valve
- ▶ Hydraulic control valve
- ▶ Roots/Hibon blowers
- ▶ Air cooled vacuum pumps
- ▶ Exterior moisture trap
- ▶ Exterior filter and float ball
- ▶ Oil trap muffler
- ▶ Master control panel

## **Turbovac Optional Features**

- ▶ High-pressure wash system
- ▶ Stainless steel tank construction
- ▶ Hydraulic suction boom
- ▶ Heated valves
- ▶ Storage cabinets and toolboxes
- ▶ DOT 407/412 and TC 407/41 configurations

## Product Specifications

<b>Installation</b>	<ul style="list-style-type: none"> <li>• 2018 Kenworth T-880 tandem axle, 450hp, automatic chassis</li> </ul>
<b>Tank Capacity</b>	<ul style="list-style-type: none"> <li>• 3600 USG + 3% Outage</li> </ul>
<b>Hydrostatic Test Pressure</b>	<ul style="list-style-type: none"> <li>• 40.0 PSIG</li> </ul>
<b>Internal Design Pressure</b>	<ul style="list-style-type: none"> <li>• 25PSIG MAWP</li> </ul>
<b>External Design Pressure</b>	<ul style="list-style-type: none"> <li>• 15PSIG</li> </ul>
<b>Standards</b>	<p><b>Meet all requirements</b></p> <ul style="list-style-type: none"> <li>• Section VIII Division 1 ASME Boiler and Pressure Vessel Code</li> <li>• National Board Registered</li> </ul> <p><b>Tanks to be designed and Constructed</b></p> <ul style="list-style-type: none"> <li>• Department of Transportation Specifications DOT 407/12</li> </ul>
<b>Head Material</b>	<ul style="list-style-type: none"> <li>• 0.3125 SA516-70</li> </ul>
<b>Shell Material</b>	<ul style="list-style-type: none"> <li>• 0.3125 SA516-70</li> </ul>
<b>Tank Diameter</b>	<ul style="list-style-type: none"> <li>• 78" OD</li> </ul>
<b>Operating Temperature</b>	<ul style="list-style-type: none"> <li>• -20 to 200 degrees F</li> </ul>
<b>Pressure Relief</b>	<ul style="list-style-type: none"> <li>• 4" SS Girard pressure vent, 30 PSIG setting mounted top of tank</li> </ul>
<b>Primary Shut-off</b>	<ul style="list-style-type: none"> <li>• 8" Internal shut-off with 12" stainless steel float ball/cage assembly and 8" rubber seat.</li> </ul>
<b>Baffle</b>	<ul style="list-style-type: none"> <li>• One anti surge baffle mounted on reinforcing pads</li> </ul>
<b>Rings</b>	<ul style="list-style-type: none"> <li>• Circumferential reinforcement rings with tank support feet where applicable</li> </ul>
<b>Overturn Protection</b>	<ul style="list-style-type: none"> <li>• Front, center and rear 4" pipe construction overturns with reinforcement pads and gussets; cw overturn rings</li> </ul>
<b>Manway</b>	<ul style="list-style-type: none"> <li>• 20" Diameter located top of tank.</li> </ul>
<b>Liquid Level Indicator</b>	<ul style="list-style-type: none"> <li>• Stainless steel construction rotary float gauge with 6" float ball assembly located on front driver side with grab handle and up position tie back</li> </ul>
<b>Rear Door</b>	<ul style="list-style-type: none"> <li>• Hydraulic full opening rear door assembly with 6 heavy duty wing clamps, neoprene rubber rear door gasket, double acting hydraulic cylinder and safety brace.</li> </ul>
<b>Suction Valve</b>	<ul style="list-style-type: none"> <li>• 6" ANSI Betts air open/spring close valve and actuator, 6" stand pipe/deflector plate assembly, aluminum Kamlok fittings mounted on rear head at 4 o'clock position</li> </ul>
<b>Discharge Valve</b>	<ul style="list-style-type: none"> <li>• 6" ANSI Betts air open/spring close valve and actuator with aluminum Kamlok fittings mounted on bottom center of rear door</li> </ul>

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<b>Isolation Valve</b>	<ul style="list-style-type: none"> <li>8" Air operated butterfly valve between primary and cyclone with manual air switch control</li> </ul>
<b>Filtration System</b>	<ul style="list-style-type: none"> <li>Dual 20" diameter cyclones mounted on 20" diameter drop box with side swing clean out, 3" brass drain valve and aluminum Kamlok fittings, Cusco 30" diameter final filter assembly installed for protection of blower with 20" diameter stainless core steel with 100 micron filter</li> </ul>
<b>Silencers</b>	<ul style="list-style-type: none"> <li>12" Intake and exhaust silencers</li> </ul>
<b>Blower Specifications</b>	<ul style="list-style-type: none"> <li>Roots DVJ 721 Blower 3658 CFM free air rating, 2850 CFM @ 18"Hg, 27" Hg maximum vacuum</li> </ul>
<b>Blower Piping</b>	<ul style="list-style-type: none"> <li>Single 8" diameter with 8" quick disconnect rubber boot assembly</li> </ul>
<b>Blower Valving</b>	<ul style="list-style-type: none"> <li>6" Manual butterfly vacuum relief valve and 10" inline check valve assembly</li> </ul>
<b>Drive</b>	<ul style="list-style-type: none"> <li>Driven from air shift transfer case</li> </ul>
<b>Pressure Unloading System</b>	<ul style="list-style-type: none"> <li>Moro PM80 air cooled vacuum/pressure pump (350 CFM free air 28" Hg) hydraulically driven with 3" air operated isolation butterfly valve, 3" diameter no disconnect piping, 3" secondary moisture trap filter and muffler/oil trap assembly</li> </ul>
<b>Hydraulic Reservoir</b>	<ul style="list-style-type: none"> <li>Mounted on hydraulic dump sub-frame with suction strainer, diffuser, fill cap, hydraulic oil filters and sight glass</li> </ul>
<b>Hydraulic Dump System</b>	<ul style="list-style-type: none"> <li>Full length hydraulic dump sub-frame with 20 ton, 3 stage single acting dump cylinder, rear dump pivot assembly and safety brace</li> </ul>
<b>Vibrator</b>	<ul style="list-style-type: none"> <li>Hydraulic vibrator assembly mounted bottom of tank with reinforcing pad, heavy duty mounting channel and pressure relief valve</li> </ul>
<b>Hydraulic Controls</b>	<ul style="list-style-type: none"> <li>3-spool valve body for control of pressure unloading system/vibrator, rear door and hydraulic dump complete with hydraulic pressure gauge. Controls are located on the driver side of unit near control panel</li> </ul>
<b>Gauges</b>	<ul style="list-style-type: none"> <li>Turbovac gauge panel assembly with tank vacuum/pressure gauge, filter element vacuum gauges, tachometer, throttle control and 3" isolation valve control. Panel to be lighted for night operation. Panel to be located on the driver side of unit near hydraulic controls.</li> </ul>
<b>Side Trays</b>	<ul style="list-style-type: none"> <li>Full-length side boxes for hose storage / fender assembly with anti-sail mud-flaps and rear tire skirt.</li> </ul>
<b>Trim</b>	<ul style="list-style-type: none"> <li>Ladder assembly mounted on the driver side of the tank c/w sidebox ladder.</li> <li>(4) numbered placards</li> <li>50' Static line</li> <li>Steel toolbox assembly 36" wide x 18" deep x 18" high</li> </ul>

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<b>Lighting</b>	<ul style="list-style-type: none"><li>• DOT LED moisture proof lighting conformant to FMVSS 108</li><li>• (3) lamp rear module assembly</li><li>• Clearance lamps</li><li>• Reflectors</li><li>• (3) in a row clearance markers</li><li>• (2) rear halogen flood lights and (1) at controls</li><li>• (1) rear amber strobe beacon</li></ul>
<b>Bumper</b>	<ul style="list-style-type: none"><li>• DOT rear bumper for protection of external valves with platform/step assembly and rear dirt shield.</li></ul>
<b>Dual Hose Hooks</b>	<ul style="list-style-type: none"><li>• Dual rear mounted hose hooks</li></ul>