

CUSCO DOT MASTERVAC

STANDARD OPTIONS

- Design: Design shall withstand 25-PSI internal pressure and 15 PSIG (full vacuum) external pressure and shall meet all the requirements of Section VIII Division 1 of the A.S.M.E. Boiler and Pressure Vessel Code. National Board Registered. Tanks shall be designed and constructed in full compliance TC 407/412
 - Tank Capacity: 3000 USG + 3% Outage
 - Tank Diameter: 78" OD
 - Head Material: 0.3125 SA516-70
 - Shell Material: 0.3125 SA516-70
 - Operating Temperature: -20 to 200 degrees F
 - Hydrostatic Test Pressure: 40.0 PSIG
 - Pressure Relief: 4" SS Girard pressure vent, 25 PSIG MAWP setting mounted top of tank
 - Primary Shut Off: 20" diameter internal shut-off with 16" stainless steel float disc assembly, 14" rubber seat and dual 8" flanged outlet
 - Baffle: One anti surge mounted on reinforcing pad
 - Rings: Circumferential reinforcement rings with tank support feet
 - Overturn Protection: Front, center, and rear 6" pipe construction overturns with reinforcement pads and gussets
 - Liquid Level Indicator: Stainless Steel construction rotary float gauge with 6" float ball assembly located on rear head
 - Rear Door: Hydraulic full opening rear door assembly with (6) heavy duty door bolts, neoprene rubber rear door gasket, dual double acting side mounted hydraulic cylinder, safety brace, and (2) hydraulic door assists
 - Suction Valve: 6" Betts air operated valve with 6" sand pipe / deflector plate assembly, aluminum Kamlok fittings mounted on rear head
 - Discharge Valve: 6" Betts air open/spring close valve and Betts actuator with aluminum Kamlok fittings mounted on rear head
 - Isolation Valve: 8" air operated butterfly valve between primary and cyclone with PTO interconnect
 - Silencers: 12" intake and exhaust silencers
 - "Filtration System: Dual 20" diameter steel cyclone assemblies.
 - Dual 42" diameter steel bag house assembly with 29-4" x 59" Acrylic coated bags, oil/moisture repellent, air cannon pulsation with hydraulic lift cylinder and hold down clamps.
 - 20" diameter washable inline S.S. / fiber filter element, 100 micron for protection of blower"
 - Blower Specifications: Roots DVJ 1021 Blower 5184 CFM free air rating, 4100 CFM @ 18"Hg, 27" Hg maximum vacuum
 - Blower Piping: Dual 8" diameter with 8" quick disconnect rubber boot assembly
 - Blower Valving: 4" brass manual vacuum relief valve and 12" inline check valve assembly
 - Drive: Driven from Air Shift Transfer Case
 - Pressure Unloading System: Moro PM80 air cooled vacuum/pressure pump (350 CFM free air 28" Hg) hydraulically driven from 6 bolt air shift PTO with 3" air operated isolation butterfly valve, 3" diameter no disconnect piping, 4" secondary moisture trap filter and muffler/oil trap assembly
 - Hydraulic Reservoir: Mounted on hydraulic dump sub-frame with suction strainer, diffuser, fill cap, hydraulic oil filters and sight glass
 - Hydraulic Dump System: Full length hydraulic dump sub-frame with 20 ton, 3 stage single acting dump cylinder, rear dump pivot assembly and safety brace
 - Vibrator: Hydraulic vibrator assembly mounted bottom of tank with reinforcing pad, heavy duty mounting channel, pressure relief valve and variable speed control
 - Hydraulic Controls: 4-spool valve body for control of hydraulic dump, rear door, filtration system, vibrator and pressure unloading system
 - Gauges: MasterVac gauge panel assembly with tank vacuum/pressure gauge, hydraulic pressure gauge and filter element vacuum gauges
 - Side Trays: Full-length side boxes for hose storage / fender assembly with anti-sail mud-flaps and rear tire skirt
 - Water Jackets: Water jackets installed on rear valves for future installation of heated valve option
 - Bumper: DOT rear bumper for protection of external valves with platform/step assembly and rear dirt shield
 - Painting: The entire tank and body of vacuum system shall be sandblasted and primed with two (2) coats of primer and painted with two (2) coats of acrylic urethane paint
 - "Trim: 12" wide walkway assembly, full length located on driver side with safety railing and ladder. Rear section of the catwalk will have fold down rail to allow boom to operate on driver side of vehicle.
- Four (4) numbered placards
25' static line
Steel Toolbox"
- "Lighting: DOT LED Lighting
(3) Lamp rear module assembly
Clearance lamps
Reflectors
(3) In a row clearance markers
(2) Rear Spotlights
(1) Rear amber rotating beacon"

ADDITIONAL ITEMS INCLUDED

- Dual rear mounted hose hooks
- 8" Moro hydraulic boom assembly with 320 degree hydraulic rotation, 4 ft. hydraulic extension, self closing valve and remote pendent control

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CHASSIS

- 2016 Western Star 4900SA Tandem Tandem Axle Chassis, Detroit DD13 12.8L 450 HP Engine, Eaton Fuller FRO-16918B Manual Transmission

