

# FOREMOST

Foremost designs and manufactures high quality and competitively priced Class 8 Heavy Truck Mounted Vacuum Equipment for use in the Oil & Gas, Municipal, Industrial and Utility market segments across North America. With manufacturing capacity in three of our Alberta based production facilities, Foremost is well positioned to meet the needs of the Transportation of Dangerous Goods industry across North America.

Foremost is one of the largest, most geographically diverse industrial manufacturers in Western Canada, specializing in oil & gas, heavy oil, mining, water well and construction equipment. For over fifty years Foremost has been a leading manufacturer, innovating solutions for the resource industry.

# FHV2816 HYDROVAC

Foremost code Hydrovacs are manufactured to TC407/412 code on a tridem chassis with an 8" code wireless remote Hydrovac boom. Standard features include a hoist, a hydraulic full opening rear door, two 4" and one 6" rear door heated load valves, a heated lock cabinet, and an enclosed control panel. Blowers range from 2650 cfm - 6500 cfm. The wash system is available with a 4 cubic meter water capacity, 18 gpm, 4000 psi wash pump, and a 1.0 million btu water heater. The wash system is installed in an aluminum insulated and lit van body.

## CODE VAC PRODUCT LINE



Code Combination Wash Unit



Code Semi Vac



Code Hydrovac



Code Straight Vac



**FOREMOST**  
VAC TRUCKS

For customer sales and/or inquiries, please contact:  
**Robert Hawkes | Operations Manager**  
780.485.1567 (direct) 780.318.5681 (cell)

**FOREMOST**

**DESIGN. BUILD. PERFORM.**  
Engineered solutions for the resource industry.



# FOREMOST FHV2816 HYDROVAC



## VAC SPECIFICATIONS

<b>Vac Model</b>	Foremost FHV2816 Tri-Drive Code Hydrovac (Tank & Equipment Only)
<b>Code Compliance</b>	The design shall meet all requirements of ASME Section VIII, Division 1 & CSA B620-09 standards. The tank shall withstand 25 PSI internal pressure (full vacuum) and 15 PSIG external pressure. The unit is certified by Transport Canada TC407/412 and is manufactured under Foremost Industries Quality Assurance Program
<b>Tank Capacity</b>	16m3 total volumetric capacity split into 2 compartments   4m3 Fresh water x 12m3 debris
<b>Tank Diameter</b>	78" (1.98m) O.D.
<b>Tank Length</b>	16'-0" (4.88m) seam-to-seam
<b>Head Material</b>	0.3125" (7.94mm) Thk. SA-516-70 carbon steel
<b>Shell Material</b>	0.3125" (7.94mm) Thk. SA-36 carbon steel
<b>Hydrostatic Pressure Test</b>	40 PSIG
<b>Tank Load Level</b>	(1) Load level deflector system mounted in debris tank section
<b>Tank Roll-Over Protection</b>	(2) 6" Rollover bars with reinforcement pads & gussets.
<b>Tank Stiffener Rings</b>	(3) Circumferential reinforcement flat bar rings
<b>Liquid Level Indicator</b>	(1) Stainless steel rotary float gauge with 8" stainless steel float ball, packing seals, grease fitting and recessed sight cage assembly. Includes chain style grab with lock out provision located on DS debris tank
<b>Rear Door</b>	Full open hydraulic rear door with (6) heavy duty wing nut style door enclosures, neoprene "Large-D" door seal, hydraulic safety counter balance valve & safety service post for door open maintenance operations
<b>Water Tank</b>	Attached to front of debris tank. 20" manway with ladder access, grab handles, 2" fill port with fill port riser pipe, 2" pump feed line with rock guard strainer. Bottom of tank utilizes 2" NPT drain port with air-actuated valve shut-off. All ports are glycol heated with aluminum camlock connectors. Water tank Epoxy lined with Devoe 233
<b>Tank Vibrator</b>	(1) Global C3 hydraulic vibrator assembly mounted on the bottom of the tank with reinforcement pad
<b>Tank Pressure Relief</b>	4" Girard DOT 407/412 certified tank pressure relief vent set at 25 PSIG mounted top of the tank
<b>Tank Securement</b>	B620-09 code certified hydraulically actuated tank subframe securement system mounted underbelly on forward section of tank.
<b>Tank Primary Shut-Off</b>	8" Heavy duty internal shutoff with 12" stainless float ball/cage assembly and rubber ball seat located top front of debris tank
<b>Tank Pedestal</b>	(2) Front & (2) Rear mounted on reinforcement pads with subframe locator securement guides
<b>Rear Door Nozzles</b>	(1) 6" ANSI x 150# Flange nozzle on Driver side rear door @ 8:00 O'Clock position with sandpipe. (1) 4" ANSI x 150# Flange located @ 4:00 O'Clock position on Passenger side. Projection is 10 degree down (1) 4" ANSI x 150# Flange nozzle projection on bottom center of rear door dumpgate

<b>Suction Valves</b>	6" MZ brass gate valve with pneumatic spring close actuator, throttle control valve and sandpipe located at 8:00 O'clock position on rear door. Additional 4" (straight-thru) valve located at 4:00 O'clock position on rear door. Valves equipped with aluminum camlock fittings & glycol heat collars
<b>Discharge Valve</b>	4" MZ brass gate valve with pneumatic spring close actuator, throttle control valve located at 6:00 O'clock position on rear door dumpgate. Valve equipped with aluminum camlock fitting & glycol heat collar
<b>Dumpgate</b>	12" Code compliant mini-dumpgate with hydraulic actuation control located at main operator control station.
<b>Hydraulic Drive</b>	Chelsea 8-Bolt PTO mounted onto transmission with direct mount Danfoss hydraulic (close loop) piston pump & direct mount hydraulic piston motor bolted to blower. Secondary Circuit; Chelsea 6-Bolt PTO mounted on transmission wiith Danfoss close loop hydraulic piston pump to run triplex wash pump system. Additional vane pump connected in series to run auxiliary functions including vibrator, rear door, dump hoist, dumpgate, boom & tank securement. PTO engagement switch and hour meter are mounted in console beside driver's seat. Chelsea PTO's supplied & installed by EKW
<b>Hydraulic Dump System</b>	Full length hydraulic dump HSS tubing construction subframe with Mailhot M140 hydraulic hoist, slide stop system and U-Bolt anchor securement to truck chassis frame. System c/w full open hydraulic rear door, (6) wing nut door enclosures, hydraulic safety counter balance valve and safety service post(s) for door open & tank-up maintenance operations. Includes tank up warning indicator lamp mounted in dash
<b>Hydraulic Reservoir &amp; Cooling System</b>	Hydraulic Reservoir & Cooling System: 90 gallon steel construction hydraulic reservoir with temperature probe, sight level glasses, fill breather cap, external charge pump filter & in-tank return filter, 12VDC fan type cooler with auto engagement thermostatic control and manual over-ride switch. System unitized behind cab on truck chassis
<b>Hydraulic Travel Section Boom</b>	8" Code compliant full travel hydraulic suction boom x 18 FT reach. Includes hand held wireless remote control for boom mast extend, retract, up/down, left/right rotation, knife gate actuation & triplex wash pump on/off control. Hard wire pendant control included for emergency back-up.
<b>Hydraulic Control Bank</b>	6-Section Danfoss valve bank for control of hydraulic dump, rear door, vibrator, boom knife gate valve, dumpgate & debris tank securement cylinder. Single separate controls for operation of blower, triplex wash pump & centrifugal water load pump
<b>Instrumentation</b>	Glycerin filled gauges located in operator control cabinet; includes main hydraulic system charge/pressure, hydraulic pump pressure, hydraulic motor pressure gauge with airflow system temperature and 30/30 vacuum pressure gauges. Additional 30/30 vacuum pressure gauge located at rear operator station. Tank up warning with dash mounted amber indicator lamp
<b>Blower Specs</b>	Hibon SIAV-822 positive displacement vacuum blower, 2750 CFM free air rating @ 28"Hg maximum vacuum, air injection cooling system with discharge manifold. Blower package mounted on modular steel construction stand with anti-vibration isolators and flex connections. Blower system unitized behind van body

<b>Airflow Filtration System</b>	8" High efficiency cyclonic filtration system with bottom swing clean-out door and purge flush port connection, 2" glycol heated brass drain valve with camlock fitting & washable inline final filter element for protection of blower
<b>Vacuum/Pressure Piping</b>	8" No-disconnect piping to allow tank to dump while vacuum system connected, 6" pressure check valve for protection of blower, composite loop hose from upper to lower pipe, (2) 2" 15 PSIG pressure relief valves, and upper and lower blower exhaust routed to passenger side with male aluminum camlock connection
<b>Air Flow Divertor Valve</b>	8" Four-way valve for debris tank vacuum to pressure changeover
<b>Silencers</b>	(1) 8" chamber type discharge silencer & (1) 8" absorptive type air intake silencer. Silencers are horizontal mount low noise design with 1" brass drain valves
<b>Burner System</b>	Hotshot FA-102AWEDW x 120V diesel fired water heater c/w diagnostic panel, Honeywell temperature controls, 3000 watt AC/DC inverter, vent & lid kit, 980,000 BTU maximum rating with Steam Kit, Fuel supplied from truck chassis fuel tank.
<b>Triplex Wash Pump</b>	CAT 3560 triplex wash pump - 20 GPM @ 4000 PSIG maximum rating, pressure relief/unloaded valve. Twin 12VDC retractable hose reels with 100' of high pressure hose, Y-Strainer, trigger gun wash wand & wet steam wand
<b>Wash System Purge</b>	7 gallon glycol flush air blow down tank with hardware and system plumbing
<b>Solvent Wash Pump System</b>	12VDC solvent wash pump system with poly reservoir, trigger gun, wand, nozzle. and quick coupler
<b>Electrical</b>	L.E.D. lighting package to comply with CMVSS requirements. Complete with weatherproof plug style wire harness system, junction box and weatherproof main control panel box, soldered and silicone lined shrink tube waterproof connections. All connections protected with breakers. (2) stop & turn LED light modules c/w reverse located on rear skirt, (2) elevated stop & turn LED light modules located on rear door. (2) front, (2) rear mount, (2) boom mount LED work lights and (1) LED work light at operator control station. Includes (2) 7" LED flood lamps on P/S facing work area. All switch controls dash mounted if chassis has provision. Electrical system shut-down at key
<b>Side Trays</b>	Full length non-dumping formed carbon steel plate fender side trays for hose storage. Includes heavy duty high off-set supports, HSS steel tubing handrails, close-in plates, anti-sail mud-flaps & rear tire skirt
<b>Bumper</b>	Rigid bumper for protection of external valves with side steps, full rear skirt and tow point
<b>Storage Cabinet</b>	(1) steel construction slope back double door storage box mounted on driver's side deck. Includes whale tail locks, chain stop, rain-lip, weather stripping and aluminum checker plate doors
<b>Solvent Wash Box</b>	(2) rear skirt mounted wet fitting boxes with hinged access (step) lids, grating & NPT bottom drain ports

## OPTIONS & ACCESSORIES

- Pail holder
- Shovel/Squeegee rack
- 6" sample port with aluminum camlok fitting top of debris tank with ladder acces
- All control switches and valves to have aluminum etched function tags
- Static ground reel with clamp
- Safety decal package
- Blower diesel flush with ball valve control
- Glycol booster pump
- Four multi-pin TDG placards
- Emergency kill vacuum switch
- Back-Up alarm
- Blower & door control console mounted on rear drivers side deck
- 25 Lb type ABC fire extinguisher with mount bracket and cover
- Mud flaps with anti-sail brackets
- (2) Tire Chain Racks
- Hydrovac Dig Tube package mounted on gun rack storage saddle system; includes (2) 8" x 6', (2) 6" x 6' aluminum dig tubes, (1) 6" x 6' aluminum extension, (1) 6" aluminum dig tube with neoprene end & (1) 8" x 6" reducer
- Safe operations, maintenance and service manual (USB - Spare)

**Consult FOREMOST Sales Team for additional options**

## PAINT

Entire tank and vacuum equipment system sandblasted then primed with two coats of primer and two coats of Endura paint in two colours. EKW colour scheme is white tank to match cab & grey trim. Rock guard impact coating applied to bottom third of tank exterior, side-trays, rear bumper & skirt area. Foremost inspectors will monitor paint shop operations for added quality assurance

**NOTE:** Customer may choose Fleet colour scheme if presold & confirmed prior to FOREMOST paint shop schedule. Amount not to exceed EKW paint allowance as noted above

## VAN SERVICE BODY

Foremost walk-in crossover service body, 42" Long x 101" Wide x 116" Tall to house burner and wash system. Man Doors with vertical grab bar lock style handle, fixed side windows. Urethane foam/insulation, reinforced aluminum sheet snap tight side walls, roof hatch access, power vent, Passenger side equipment access mini-doors for in-service hose use. Unit equipped with internal lights, shelving, racks, Bus Heaters and spare 110 Volt receptacles

## INSTALLATION & CERTIFICATION:

FOREMOST will provide NSM final stage vehicle assembly certification on completion of unit with axle tare weights. B620 tank VIKP inspection will be current with Customer sale transaction date

*FOREMOST reserves the right to engineer and manufacture its products in accordance with its warranty and design policies. Upon agreement of the sale, this document serves as a legal and binding agreement between both parties. All requirements of the customer must be specified exactly and any changes will require a revised quotation and/or change order to be done. No modifications or additions shall be binding upon seller unless expressly agreed to in writing by seller. Any conflicting terms and conditions appearing in buyer's purchase order or in any other buyer's document are specifically rejected by seller. Buyer agrees to be bound by such terms and conditions. Final acceptance of this sale is subject to approval by the management of FOREMOST INDUSTRIES LP*

For customer sales and/or inquiries, please contact:  
**Robert Hawkes | Operations Manager**  
 780.485.1567 (direct) 780.318.5681 (cell)