

FCV1616 COMBO UNIT

The Foremost FCV1616 Combo Vac Wash Unit is a TC407/412 code compliant unit with a two compartment volumetric tank with capacity up to 16m³. The heated walk-in van body is the right option package that will get the job done without cold weather compromise. A piston-style, close loop hydraulic system powers the 1600 CFM high vac positive displacement blower. Units are also equipped with a 750,000 BTU water heater & 10 GPM x 3000 PSIG triplex high pressure wash pump. Numerous advanced safety features are included on this uniform build spec. Foremost uses only the best components available to ensure excellent performance and durability.



FOREMOST
VAC TRUCKS

DESIGN. BUILD. PERFORM.

Engineered solutions for the resource industry.

FOREMOST FCV1616 COMBO UNIT

VAC SPECIFICATIONS

Vac Model	Foremost FCV1616 Tri-Drive Code Combo Vac Wash Unit (Tank & Equipment Only)
Code Compliance	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
Tank Capacity	16m ³ total volumetric capacity split into (2) compartments. 4m ³ fresh water section & 12m ³ debris section
Tank Diameter	78" (1.98m) O.D.
Tank Length	16'-0" (4.88m) seam-to-seam
Head Material	0.3125" (7.94mm) Thk. SA-516-70 carbon steel
Shell Material	0.3125" (7.94mm) Thk. SA-36 carbon steel
Hydrostatic Pressure Test	40 PSIG
Tank Baffle	(1) Anti-Surge bolt-in style half baffle mounted in debris tank section
Tank Roll-Over Protection	(2) 6" Rollover bars with reinforcement pads & gussets
Tank Stiffener Rings	(3) Circumferential reinforcement flat bar rings
Liquid Level Indicator	(1) Stainless steel rotary float gauges with 8" stainless steel float ball, packing seal, grease fitting and recessed sight cage assembly. Includes chain style grab with lock out provision located on DS debris tank
Rear Door	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
Water Tank	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 bottom sump pick-up & 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 Devco 233
Tank Vibrator	(1) Global C3 hydraulic vibrator assembly mounted on the bottom of the tank with reinforcement pad
Tank Pressure Relief	4" Girard DOT 407/412 certified tank pressure relief vent set at 25 PSIG mounted top of the tank
Tank Securement	B620-09 code certified hydraulically actuated tank subframe securement system mounted underbelly on forward section of tank.
Tank Primary Shut-Off	8" Heavy duty internal shutoff with 8" stainless float ball/cage assembly and rubber ball seat located top front of debris tank
Tank Pedestal	(2) Front & (2) Rear mounted on reinforcement pads with subframe locator securement guides
Rear Door Nozzles	(2) 4" ANSI x 150# Flange nozzles on rear door with 6" sandpipe located on Driver's side. Projection is 10 degree down. (1) 6" ANSI x 150# Flange nozzle projection on bottom center of rear door

Suction Valves	4" 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
Discharge Valve	6" MZ brass gate valve with pneumatic spring close actuator, throttle control valve located at 6:00 O'clock position on rear door. Valve equipped with aluminum camlock fitting & glycol heat collar
Hydraulic Drive	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; Danfoss load sense hydraulic piston pump tandem mounted to main pump to run triplex wash pump system & auxiliary functions including vibrator, rear door, dump hoist & tank securement. PTO engagement switch and hour meter are mounted in console beside driver's seat
Hydraulic Dump System	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
Hydraulic Reservoir & Cooling System	Hydraulic reservoir with temperature probe, sight level glasses, fill breather cap, external spin-on charge/return filters & 12VDC fan type cooler with auto engagement thermostatic control and manual override.
Hydraulic Control Bank	4-Section Danfoss valve bank for control of hydraulic dump, rear door, vibrator & tank securement cylinder. Single separate controls for operation of blower & triplex wash pump
Instrumentation	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
Blower Specs	Hibon VTB-820XL positive displacement vacuum blower, 1600 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 cab
Airflow Filtration System	6" 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
Vacuum/Pressure Piping	6" No-Disconnect piping to allow tank to dump while vacuum system connected, 6" back pressure check valve for protection of blower (back-spin), composite loop hose from upper to lower pipe, (2) 2" 15 PSIG pressure relief valves and blower exhaust line routed to passenger side of unit with two port male aluminum camlok connection
Air Flow Divertor Valve	6" Four-Way divertor valve for debris tank vacuum to pressure changeover
Silencers	(1) 6" chamber type discharge silencer & (1) 6" absorptive type air intake silencer. Silencers are low noise design with 1" brass drain valves & glycol heat collars

Burner System	Hotshot FA-HS2029 x 120V diesel fired water heater c/w diagnostic panel, Honeywell temperature controls, 3000 watt AC/DC inverter, vent & lid kit, 700,000 BTU maximum rating with Steam Kit, Fuel supplied from truck chassis fuel tank.
Triplex Wash Pump	CAT 660 triplex wash pump - 10 GPM @ 3000 PSIG maximum rating, pressure relief/unloader valve. Twin 12VDC retractable hose reels with 100' of high pressure hose, Y-Strainer, trigger gun wash wand & wet steam wand
Wash System Purge	7 gallon glycol flush air blow down tank with hardware and system plumbing
Solvent Wash Pump System	12VDC solvent wash pump system with poly reservoir, trigger gun, wand, nozzle. and quick coupler
Electrical	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 LED work lights and (1) LED work light at operator control station. All switch controls dash mounted if chassis has provision. Electrical system shut-down at key
Side Trays	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
Bumper	Rigid bumper for protection of external valves with side steps and full rear skirt
Storage Cabinet	(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
Solvent Wash Box	(2) rear skirt mounted wet fitting boxes with hinged access (step) lids, grating & NPT bottom drain ports

20 Lb type ABC fire extinguisher with mount bracket and cover

(2) Tire Chain Racks (Room permitting)

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. 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

Walk-in service body, 54" Long x 101" Wide x 116" Tall to house burner and wash system. Door with freezer lock style handle, fixed side window, external grab handle. Urethane foam/insulation, reinforced side walls, roof hatch access, battery/tool box in step/well, power roof vent, Kemlite lined walls and ceiling, non-slip floor, Passenger side equipment access doors with mini-doors for in-service hose use. Unit equipped with 35,000 BTU Bus Heater 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

OPTIONS & ACCESSORIES

- Pail holder
- Shovel/Squeegee rack
- 6" sample port with aluminum camlok fitting top of debris tank with ladder access
- All control switches and valves to have aluminum etched function tags
- Static ground reel with clamp
- Safety decal package
- Mud flaps with anti-sail brackets
- Blower diesel flush tank with ball valve control
- 2" Hydraulic drive self priming centrifugal pump for fresh water loading
- Glycol booster pump
- Four multi-pin TDG placards
- Emergency kill vacuum switch
- Back-Up alarm
- Blower & door control toggle switch console mounted on rear drivers side deck

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

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.

CODE VAC PRODUCT LINE



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