

NOTE TO PURCHASERS: This is an INCOMPLETE UNIT. This is a bid award on a combination Sewer Cleaning/Vacuum Unit to be mounted on an appropriately sized cab & chassis truck. Agencies purchasing this unit will need to provide a cab & chassis truck of appropriate size, GVW, and, options necessary to have the selected combination Sewer Cleaner/Vacuuming Unit to be mounted on or have the truck provider assist in ordering the correctly outfitted truck. All items factory installed unless otherwise noted. AIR/VACUUM SYSTEM: Positive displacement vacuum pump or centrifugal compressor; 3500 CFM @ 14.5 inches of mercury, minimum; Muffler; Vacuum relief valves; Centrifugal separator with clean out; PTO or hydrostatic drive. DEBRIS TANK: 10 cu yd capacity; 45-degree hydraulic dump; Top hinged; Hydraulic door locks; Sight glass or indicator; Drain valve with hose; Check ball system or vacuum breaker. BOOM ASSEMBLY: 270-degree boom working area; Hydraulic up/down; Clean out port; Transport cradle; 8" boom hose; Pendant control. WATER PUMP: 2500 PSI, 80 GPM; Pressure relief valve; Wash down gun with relief valve. WATER TANK: 1000 gallon capacity; Curb side fill; Level indicators. HOSE REEL: 800' of 1" hose capacity; 400' of 1", 2500 PSI hose supplied; Power in/out; Reel speed control system; Position lock system; Engine and hose reel controls; Level wind. DRIVE SYSTEM: Hydrostatic transfer case, split PTO, or auxiliary engine or transfer case. MISCELLANEOUS: Nozzles 15 degree and 30 degree for jet; Wash down gun; 8" intake tube 20' minimum; Flexible hose guide; Hose storage rack.

Meets or exceeds all requirements of Spec 364.

AQUATECH

B10 AND B15 SERIES

COMBINATION CLEANING/VACUUMING MACHINES



The B10 and B15 Combination Cleaners are designed to give unsurpassed performance in catch basins, storm sewers, lift stations and treatment plants in municipal and industrial applications.

HIGH-PERFORMANCE, STATE-OF-THE-ART FEATURES INCREASE PRODUCTIVITY.

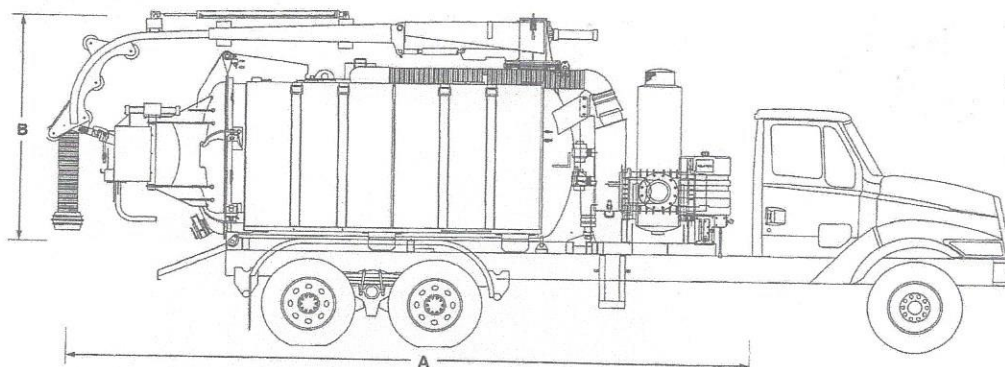
- **SINGLE ENGINE DRIVE**
Dramatically decreases fuel consumption, maintenance expenses, sound levels, weight on chassis and initial purchase price. Chassis engine powers all systems.
- **REAR MOUNTED HOSE REEL**
The 180° articulating rear reel facilitates placement of unit regardless of manhole location. The rear location assures unobstructed vision for the driver, allows maximum air flow to the chassis engine and provides the quietest workstation in the industry.
- **FULL POWER. 360° ROTATING BOOM**
The top loading boom is self-cleaning, powers up/down and extends to 20 feet. Top mounting produces even load distribution.
- **VACUUM HOSE**
The heavy-duty, wire-reinforced rubber, 8" hose is designed to prevent wear and clogging. Vacuums up bottles, cans and bricks over 150 feet in depth.
- **CYLINDRICAL DEBRIS TANK**
High-strength steel is corrosion and abrasion-resistant. Has more usable space for larger loads than any other design. Capacities of 10 to 15 cu. yds.
- **LIGHTWEIGHT WATER TANKS**
Fully baffled 3/8" thick, U.V. stabilized, non-corrosive polyethylene saddle tanks. Capacities from 1000 to 1500 gallons.

SOME FEATURES SHOWN MAY BE OPTIONAL.

- **TRIPLEX RECIPROCATING WATER PUMP**
Continuous flow triplex reciprocating water pump is rated at up to 80 GPM@2500 psi and is designed to operate dry.
- **INTERNAL BOOM VALVE**
Increases air velocity, builds instantaneous vacuum to 204" of negative water pressure for picking up materials above and below water.
- **VACUUM CUT-OFF SYSTEM**
Fail safe protection prevents materials from entering positive displacement exhauster and passing into the atmosphere.
- **LOWEST CENTER OF GRAVITY**
Makes full loads more stable during transport.
- **PNEUMATIC FOOT CONTROL**
Permits one-man operation of hose reel payout/retrieve, and allows operator to work any distance from unit.
- **VACUUM TUBES**
Ball and socket connections and quick-acting lever locks from a water-tight seal. Tubes can be locked at various angles to allow infinite positioning of tubes when cleaning deep manholes and catch basins.

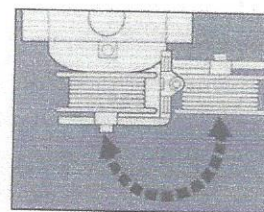
DISTRIBUTED BY:

■ Combination Machine ■ Rear Mounted Reel



Dimensions	B10		B15	
	U.S.	Metric	U.S.	Metric
A. Overall length	267"	6782 mm	331"	8407 mm
B. Height above truck frame	103"	2616 mm	103"	2616 mm
C. Overall width	98"	2489 mm	98"	2489 mm

Dimensions may vary with chassis and options selected. Specifications are subject to change without notice. All ratings are calculated at sea level. Patents applied for. Some features may be optional.



180° ARTICULATION
(TOP VIEW)

GENERAL DESCRIPTION

AIR/VAC SYSTEM

Positive displacement exhaustor
2700 CFM (4588 m³/h) operating capacity,
204" (5282 mm) water column
Poly chain drive
Muffler silencer
Protected by micro-filter/centrifugal separator
Vacuum relief valves

DEBRIS TANK

Cylindrical design
10 cu. yd. (7.6 m³) B10
15 cu. yd. (11.5 m³) B15
Dumping 45°
Hydraulic power up/down cylinder
Self-aligning closure seal
Top-hinged full opening rear door
Two 5" (127 mm) liquid level sight eyes
Debris deflector plate
Double strainer for rear door drain
Rear door security prop
4 mechanical rear door locks
Rear door power up/down hydraulic cylinder
Stainless steel ball check valve
6" (152 mm) quick opening rear drain valve
6" (152 mm) x 15" (4.6 m) lay flat discharge

BOOM

Top mounted
360° hydraulic rotation
Portable pendant, controls all functions
Internal boom valve
8" (203 mm) extra heavy duty rubber intake hose
Extends to 20' (6.1 m)
Powers up/down
Rear storage location
Quick open cleanout

WATER SYSTEM

Triplex reciprocating
80 GPM (303 liters)
2500 PSI (172 bar)
Poly chain drive
Pressure relief valve
Water flow control valve
Air valve on pump for cold weather operation
Wash down gun connection
Wash down gun with 35' (10.7 m) of 1/2" (12.7 mm) hose

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CPC 6-08

800 PSI (55 bar) relief valve
Suction strainer

WATER TANK

B10 1000 gal. (3785 liters)
B15 1500 gal. (5677 liters)
Saddles tanks independent of debris tank
Material: U.V. stabilized 3/8" (9.5 mm) thick
Fully baffled
Anti-siphon air gap protection
Curb side fill
2 liquid level indicators
Removable inspection covers
Limited lifetime warranty

HOSE REEL

Rear mounted
Hydraulic 180° articulating
400' (122 m) of 1" (25.4 mm), 2500 PSI (172 bar) hose
800' of 1" (248 m) hose capacity
Reel speed control valve
Hose levelwind
Hydraulic drive
Pneumatic food control pedals
Automatic positioning lock
Engine throttle
Vacuum/pressure gauge
Tachometer
Water pressure gauge

POWER TAKE-OFF

Split shaft transfer case
Pneumatic shifting

ACCESSORIES, STANDARD

Hinged tank support prop
8" x 8" (203 mm x 2.4 m) aluminum extension tube
8" x 6" (203 mm x 1.8 m) aluminum intake tube
Two operation, parts and service manuals (unit only)
15" nozzle
35" nozzle
Manhole hose guide
Painted one color, acrylic enamel
Touch-up paint
2 aluminum tool boxes
Tube storage carriers on front bumper
Aluminum fenders
Mud flaps

VACUUM/DEBRIS TANK OPTIONS

Hydraulic rear door locks
Water pump-off system
Internal flush-out system
Exhausters up to 4500 CFM
Telescoping boom to 25' (7.6 m)
Waste-water recycling
Fluidizer for underwater suction
Stainless steel tank
Tank vibrator

WATER SYSTEM OPTIONS

Cold weather recirculation
Rubber leader hose
35-160 GPM (132-605 liters) water pumps
Pressure: 0-3000 psi (207 bar)
1/2" (12.7 mm) hose reel
Pulsation dampener
Increased water capacity

OTHER OPTIONS

Front mounted hose reel
Power tilt for front mounted hose reel
Front mounted extending 320° rotating rose reel
Counter for levelwind
Street flushers
Debris and water tank interconnect
Deluxe tube storage racks
Power deck shroud and skirting
Body arrow light board

For other options, see Aquatech's accessory catalog. Specifications are subject to change without notice. Some photographs may show optional equipment. All ratings are calculated at sea level. Patents applied for.

Rear Mounted Hose Reel

- For greater safety for operators
- Minimizes noise and heat
- Fast and simple engine inspection
- 100% field of vision for driver
- Most productive operating system

Single Engine Operation for All Systems

- Avoids the need for two engines, reducing operating and maintenance costs

Cylindrical Debris Tank Without Internal Obstructions

- Eliminates accumulation of corrosive waste
- Manufactured of 1/4" high strength steel

360° Boom, Front/Top Loading of Debris

- Allows unrestricted positioning of suction hose around the unit
- Allows faster positioning of the vehicle at work locations
- Better loading of debris tank provides proper weight distribution and eliminates the requirement for a wear plate

High Pressure, Continuous Flow Water Pump

- Ensures complete point-to-point cleaning with a single, continuous flow of pressurized water
- Maximizes cleaning of sanitary and storm pipes and catch basins

Positive Displacement Blower

- Most effective blower for municipal applications
- Allows suctioning beneath water surface
- Positively provides consistent airflow and maximum vacuum as required

Unobstructed Access to the Engine

- Minimizes time allocated to daily inspections of the truck's engine
- Allows operators unrestricted access to the truck's engine at any time

Debris Separation Grille

- Allows unhindered draining of effluent through the discharge valve for efficient decanting

Water Tanks

- Manufactured with high molecular density polyethylene
- 100% of volume and structure above the chassis frame and above the pump's suction level
- Guaranteed against corrosion, splitting, or cracking

Variable Control Flow Valve

- Allows for infinitely adjustable flow rates independent from engine RPM

Discharge Valve

- Located at lowest point of debris tank, allowing complete emptying of effluent

Dual Head Flush Out Internal Cleaning System

- Facilitates dumping of debris and cleaning of the debris tank

Vacuum Booster Valve

- Creates MAXIMUM vacuum within the tank for even more suction when you need it

Designed for Underwater (Submerged) Operation

- Penetrates overflow and standing water, quickly maximizing efficiency and profitability

Four Hydraulic Safety Latches

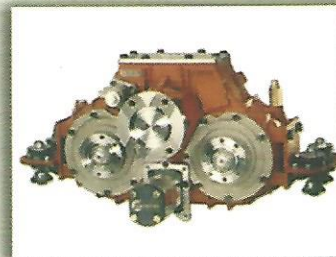
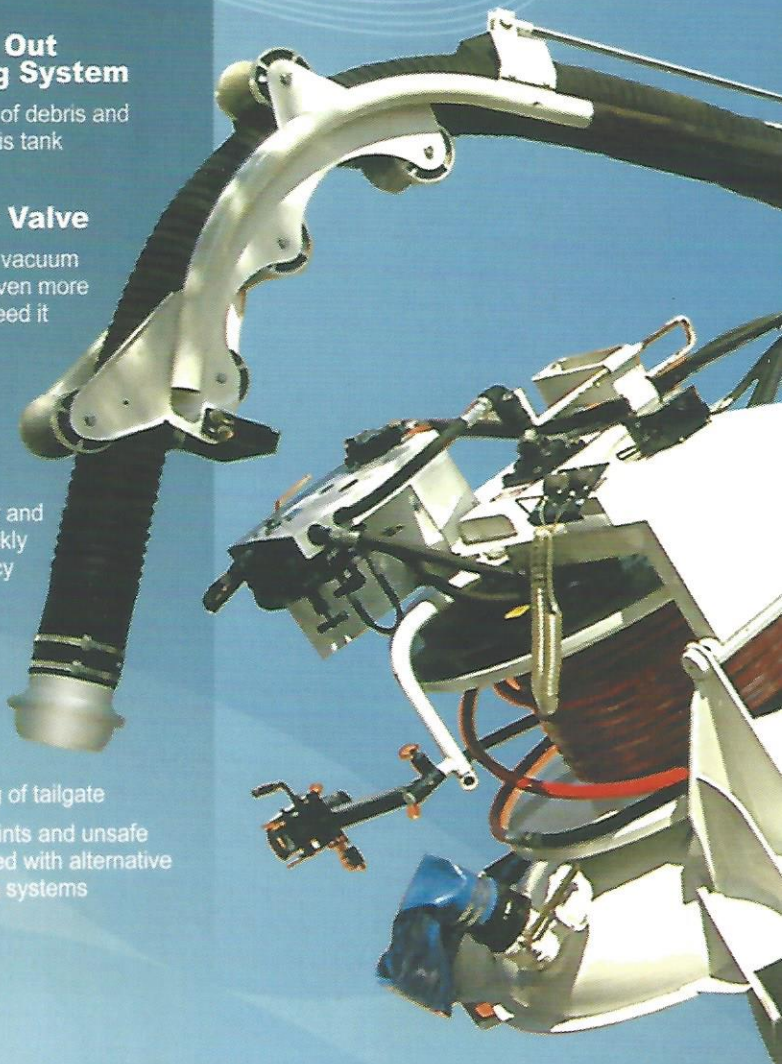
- Allows for safe and secure opening and closing of tailgate
- Eliminates pinch points and unsafe conditions associated with alternative mechanical latching systems

Pump Off Automatic Draining System

- Optional accessory preferred where piping and/or stations are constantly flooded with effluent

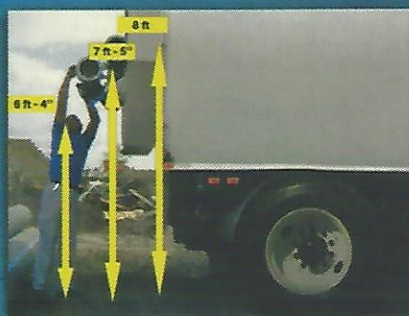
Split Shaft Power Transfer (PTO)

- Power loss rate of only 3% while transmitting power
- Remote starting and shutoff from operator's station





OTHERS



AQUATECH



AQUATECH

A product of Hi-Vac Corporation

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THE ONLY DESIGN THAT MEETS THE EPP/EPS REQUIREMENT

OSHA defines ergonomics as the science of fitting workplace conditions and job demands to the capabilities of the working population. Sometimes referred to as EPP (Ergonomic Productive Position) and EPS (Ergonomic Productive Systems), Aquatech considers factors related to the operator as well as factors that will make the most economic sense to the entity purchasing the equipment. Fortunately, most times, these factors have the same objectives—a safe, efficient product that provides the best working environment.

Why is any of this important when considering a new jetting/vacuum system? The answer is that an ergonomic design can be the difference in improved employee safety, satisfaction, job efficiency and ultimately productivity. In other words, choosing a combination jet/vac system with an ergonomic design built in can actually translate to your bottom line and a faster return on investment.

With municipal budgets tightened and constrained like never before, any advantage when purchasing capital equipment is magnified. Alternatively, opting for equipment that promises solutions and ultimately does not deliver can set your city back years, let alone hundreds of thousands of dollars.

At Aquatech, we recognize that many factors go into an ergonomic design. That is why we consider not only the posture of the operator but also other factors that can significantly affect operator productivity such as:

- controlling noise levels to lower than 90 dB by not having the operator working in close proximity to the diesel engine
- lessening exposure of extreme heat to the operator by positioning the hose reel at the REAR of the machine rather than the front

Other factors in the Aquatech design relate specifically to safety issues including:

- significantly improving the driver's field of vision and eliminating blind spots by positioning the hose reel and boom hose at the REAR of the truck, thereby eliminating the area (up to 40%) blocked by a front reel and front mounted boom hose
- allowing the operator to stand upright rather than bent over when using the hose reel (thanks to a higher position placement of the reel)

These factors as well as others promote worker health and safety with the goal of minimizing downtime and needless injury. This can provide significant savings in worker's comp, medical insurance costs and the forced retirement of a good employee put on disability due to a work injury that could have been avoided.

In short, Aquatech systems allow man and machine to work in harmony to achieve optimum efficiency and productivity.



MANUFACTURER CERTIFICATION

FSA20-VEL28.0 Pursuit, Administrative & Other Vehicles,
FSA20-VEH18.0 Heavy Vehicles
FSA 20-EQU18.0 Heavy Equipment

This is to certify that Pats Pump & Blower is the manufacturer
(Vendor/Respondent's Name) or a
manufacturer's authorized dealer of HiVac Corporation
(Manufacturer/Brand Name)
in the State of Florida.

By:

Manufacturer Name: HiVac Corpotation

Address: 117 Industry Road

City, State, Zip: Marietta Ohio 45750

Office Phone: 740.374.2306

Mobile Phone: _____

E-mail: kpark@hi-vac.com

Signature: _____

Title: _____

PLEASE NOTE: This certification form must be executed by an authorized employee of the manufacturer ONLY. Dealers/Representatives are not authorized to execute this certification form on behalf of the manufacturer. The manufacturer must execute this certification form even if they are offering their own products. Failure to submit this certification form with your response as required shall result in the disqualification of the response.