800 SERIES

Liqua-Blasters® Up To 300 HP

Pressures from 6,000 - 36,000 PSI
Flows to 61 GPM





The Liqua-Blaster 800 Series' higher flows means you can run multiple gun stations at the same time without sacrificing the cleaning power of the unit.

Model 800 Pressures & Flows – 250 HP

UNIT	PRESSURE		FLOW		POWER		PLUNGER		PUMP
Model	PSI	Bar	GPM	LPM	HP	kW	In.	mm	Model
806	6,000	414	61	231	250	187	1.6250	41	TF-450MB
807	7,000	517	52	197	250	187	1.5000	38	TF-450MB
810	10,000	690	40	151	250	187	1.3125	33	TF-450MB
815	15,000	1034	26	98	250	187	1.0625	27	TF-450H
820	20,000	1379	20	76	250	187	0.9450	24	TF-450H



The higher flows of the Liqua-Blaster 800 Series are ideal for powering automated systems like our Concrete Renovation Robot, which allows one person to safely remove concrete horizontally, vertically or overhead.

Model 800X Pressures & Flows – 300 HP

UNIT	PRESSURE		FLOW		POWER		PLUNGER		PUMP
Model	PSI	Bar	GPM	LPM	HP	kW	In.	mm	Model
807X	7,500	517	61	229	300	224	1.6250	41	TF-450MB
810X	10,000	690	47	180	300	224	1.4370	37	TF-450MB
812X	12,000	827	43	163	300	224	1.3750	35	TF-450MB
815X	15,000	1034	32	122	300	224	1.1825	30	TF-450HB
820X	20,000	1379	26	98	300	224	1.0625	27	TF-450H
836X	36,000	2482	12	45	250	188	0.945	24	TX-375UH

Model 800VS (Variable Speed) Pressures & Flows – 250 HP

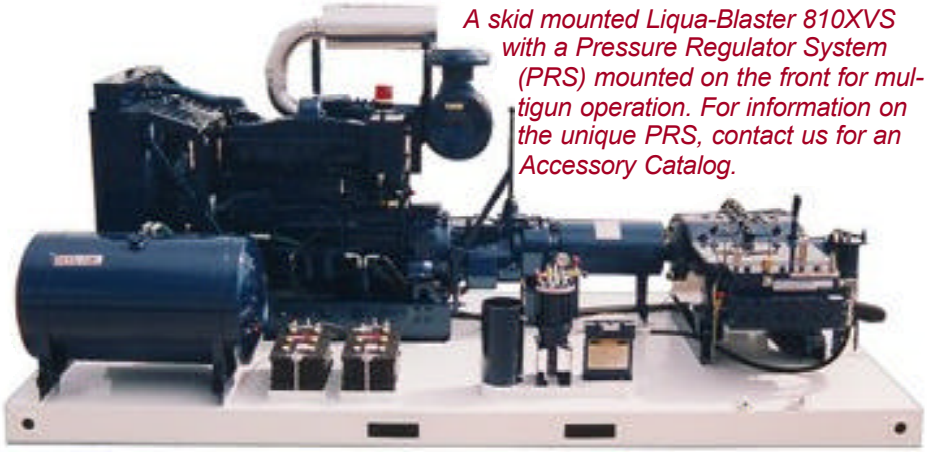
UNIT	PRESSURE		FLOW		POWER		PLUNGER		PUMP
MODEL	PSI	Bar	GPM	LPM	HP	kW	In.	mm	MODEL
810VS	7,500-10,000	517-690	52-40	197-151	250	187	1.5000	38	TF-450MB
820VS	14,000-20,000	956-1379	26-20	98-76	250	187	1.0625	27	TF-450H

Model 800XVS (Variable Speed) Pressures & Flows – 300 HP

UNIT	PRESSURE		FLOW		POWER		PLUNGER		PUMP
MODEL	PSI	Bar	GPM	LPM	HP	kW	In.	mm	MODEL
810XVS	7,500-10,000	517-690	62-47	235-178	300	224	1.6250	41	TF-450MB
814XVS	10,500-14,000	723-965	43-28	163-106	300	224	1.3750	35	TF-450HB
820XVS	20,000	1379	26-22	98-83	300	224	1.0625	27	TF-450HB
836XVS	36,000	2482	14-12	55-47	300	224	1.024	26	TX-375UH

Flow rates based on 100% volumetric efficiency; rates may vary according to pump speed.

800 SERIES THE MOST VERSATILE AN



A skid mounted Liqua-Blaster 810XVS with a Pressure Regulator System (PRS) mounted on the front for multigun operation. For information on the unique PRS, contact us for an Accessory Catalog.

Each component of the Liqua-Blaster 800 Series is designed with a specific customer benefit. Below is detailed information on Gardner Denver Water Jetting Systems' pump, engine and other unit components.

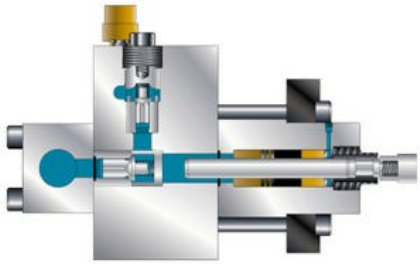
TF-450MB/H PUMP

The Partek TF-450 pump consists of the power end and a fluid end. The power end, consisting of crankshaft, connecting rods and crossheads transmits power from the pump driver which may be diesel or electric to the fluid end. Utilizing plungers and valves, the fluid end converts inlet water to a high pressure stream. Two standard fluid ends are offered for the TF-450; the Standard "L" (TF-450MB) for pressures to 12,000 PSI and the Inline (TF-450H) for 20,000 PSI.

Fluid End

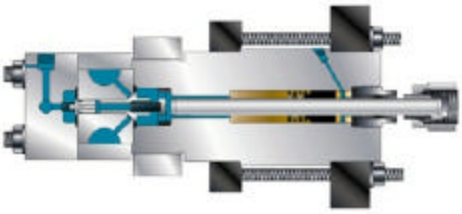
Whether Standard "L" or Inline, all Partek fluid ends share several features which significantly improve the pump's life, performance and maintainability.

- All high pressure wetted components are constructed of special high strength stainless steel to eliminate corrosion.
- Suction manifolds are manufactured from aircraft aluminum to facilitate field service. They also incorporate stainless-steel valve disc inserts to reduce wear. Complete stainless steel manifolds are available for salt water service.
- Discharge manifolds are manufactured with larger outlets to accommodate higher flows rates.
- Standard "L" style fluid cylinders and Inline style stuffing boxes and valve seats are autofrettaged to provide maximum strength and reliability. (Autofrettaging is a unique process that utilizes ultrahigh pressure to significantly increase component life.)
- Partek fluid end designs are characterized by minimal internal clearances to insure highest possible volumetric efficiency. High volumetric efficiency results in improved cutting or cleaning performance while allowing the pump to operate at slower, life extending speeds.
- Plungers are non threaded, collet style for positive alignment and rapid removal.
- Plungers and packing are lubricated and cooled by water. Unlike messy oil or grease systems, water lubrication is environmentally safe, inexpensive and requires minimal maintenance.
- Gardner Denver's APC (advanced polymer composite) packing systems utilize space age materials and spring loading to deliver long, even wear.
- Partek fluid ends are configured to permit rapid removal of packing and plungers from the rear of the stuffing box through the pump cradle.
- Pressure gauge is stainless-steel glycerine-filled to extend gauge life and has built-in snubbers.



Standard "L" Operation to 12,000 PSI

With thousands in service, the Partek "L" fluid end is clearly the water jetting industry's standard of excellence. This simple design features easy removal of valves, plungers and packing for fast efficient field maintenance. Plungers have a .022 colmonoy coating over stainless steel which, unlike fragile ceramic styles, are not affected by thermal shock. Fluid end is equipped with stainless steel relief valve and rupture disc.



Inline Operation from 10,500 to 36,000 PSI

Since its introduction, the Partek Inline fluid end design has performed flawlessly in applications all over the world. Horizontal, "in line" suction and discharge valves and seats eliminate intersecting bores which can lead to premature fluid end failures at pressures above 15,000 PSI. Gardner Denver Water Jetting Systems offers a unique reconditioning service for valves and seats which adds hundreds of hours of life while reducing operating costs. Plungers are solid polished tungsten carbide resulting in exceedingly long plunger and packing life. Inline fluid end includes dual rupture discs for redundant over pressure protection.

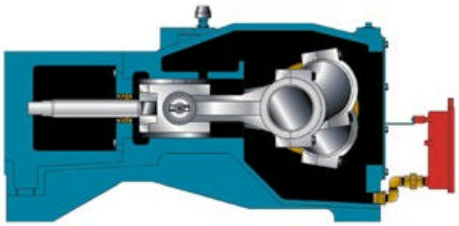
GARDNER DENVER WATER JETTING SYSTEMS, INC.

Partek • Liqua-Blaster • Geoquip • CRS Power Flow • Jetting Systems • American Waterblaster

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RELIABLE WATER-JETTING UNITS AVAILABLE.



Power End

- Extra-heavy steel crankshaft, tapered roller bearings and large cylindrical crossheads assure accurate alignment and long life.
- Maximum frame load is 20,750 lbs.
- All components run in a heavy, precision machined cast iron frame.
- High-capacity, gravity splash oil system provides even, thorough lubrication. (800VS and 800XVS utilize a forced lubrication system with filter and cooler kit.)
- Triple-lip baffle seals and splash deflectors avert power end oil contamination.
- Equipped with sight gauge and safety system to shut down the unit if power end oil falls below or exceeds optimum operating level.

PLUMBING

The plumbing on the Liqua-Blaster 800 Series is designed for safer operation and to reduce down time.

Discharge Plumbing

- All high-pressure connections are rated for at least 2.5 times the working pressure.
- Gardner Denver Water Jetting offers a variety of adapters to accommodate most fittings.

Suction Plumbing

- Bladder style pulsation dampener minimizes potential for cavitation.
- Suction piping is corrosion-resistant bronze.
- Over-sized stainless steel filter delivers clean water to the pump to reduce plunger, valve and packing failure. The filter on a 10,000 PSI model filters to 50 microns. The 20,000 PSI model is filtered to 10 microns.

POWER UNIT

The Liqua-Blaster 800 and 800VS are equipped with a powerful 260 HP diesel, while the 800X and 800XVS utilize a 330 HP diesel. Parts and service are available worldwide and these engine emissions meet or exceed most worldwide regulations.

- Fuel filters, dip stick, oil drain and other service points are conveniently located.
- Convenient, large engine-mounted instrument panel includes key ignition, vernier throttle, low oil pressure and high water temperature shut down for maximum engine protection.
- 150-gallon fuel tank and low fuel consumption of engine (15 GPH) provide up to 10 hours run time.
- Engine is equipped with front and rear cowling and a hood for added protection.
- A three-plate, 14" clutched PTO installed between the engine and pump drive permits independent operation of the engine. Sealed pilot bearing eliminates frequent lubrication.

DRIVE SYSTEM

The Liqua-Blaster 800 and 800X use a fully enclosed tooth-belt system, which never requires adjusting, puts less load on the PTO and eliminates slipping.

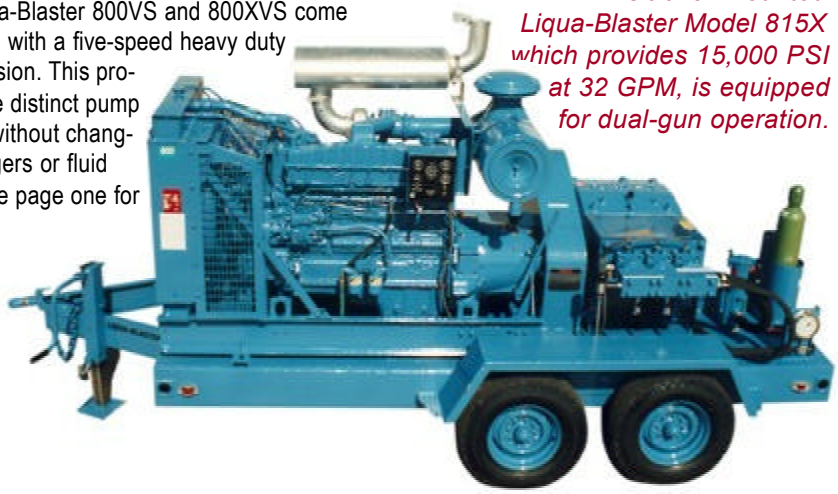
The Liqua-Blaster 800VS and 800XVS come equipped with a five-speed heavy duty transmission. This provides five distinct pump speeds without changing plungers or fluid ends (see page one for ranges).

- Clutch is engaged or disengaged via foot pedal for maximum operator convenience.
- Power is transmitted to the pump through a heavy duty “U” joint assembly.

Quality Parts, Reasonable Costs

Gardner Denver Water Jetting Systems, Inc. parts are designed and manufactured to fit perfectly and to last. Because every part we design is manufactured by Gardner Denver, each part is inspected to meet our demanding quality standards before it goes into a product or inventory. And with thousands of units in service, parts are manufactured in high volumes to keep your costs low.

This trailer-mounted Liqua-Blaster Model 815X which provides 15,000 PSI at 32 GPM, is equipped for dual-gun operation.



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800 SERIES

BASE

The Liqua-Blaster 800 Series base is constructed of heavy 10-inch steel channel with four lifting points.

- The sturdy design of the skid allows you to lift the unit without twisting the base and skewing the alignment.
- The entire footprint of the engine and pump are bolted directly to structural members providing an extremely strong, low vibration design.
- Skid surface is quarter-inch thick steel plate decking to create a safer, non-slip work surface and to enhance the structural integrity of the skid.



A single-speed, trailer-mounted Liqua-Blaster 810 with an electric motor built for use in various locations within a plant.

800 & 800X Approximate Weights & Dimensions

UNIT	HEIGHT		WIDTH		LENGTH		WEIGHT	
Model	In.	mm	In.	mm	In.	mm	Lbs.	Kg
Diesel Skid	64	1626	72	1829	168	4267	9,920	4500
Diesel Trailer	88	2235	96	2438	235	5969	10,920	4953
Electric Skid	79	2007	72	1829	164	4166	10,000	4536
Electric Trailer	103	2616	96	2438	228	5791	11,800	5352

800VS & 800XVS Approximate Weights & Dimensions

UNIT	HEIGHT		WIDTH		LENGTH		WEIGHT	
Model	In.	mm	In.	mm	In.	mm	Lbs.	Kg
Diesel Skid	91	2311	72	1829	176	4470	11,800	5357
Diesel Trailer	115	2921	96	2438	240	6096	12,800	5811

Custom systems and options are available. Please contact your Gardner Denver sales representative or authorized dealer for details. Gardner Denver Water Jetting Systems, Inc. offers a complete line of accessories for surface preparation, tube cleaning, jet cutting and other applications. Please call or write for a free catalog today.

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STANDARD OPTIONS

The following options are available for all Liqua-Blaster 800 Series models.

Water Tank. A 120-gallon tank is available for operation in areas where water supplies are inadequate or must be trucked in. Stainless-steel construction permits use of salt water and facilitates introduction of caustic or other agents.

Engine Throttle Control. The Engine Throttle Control governs engine speed. Engine is at idle RPM with gun(s) in dump mode. RPM climbs to preset level when gun trigger is depressed.

Trailer Mounting. Trailers have four-wheel, 8000-pound tandem axles with heavy-duty tongue, fenders, and adjustable height hitch with interchangeable couplers to facilitate towing by almost any truck. Trailer units have correct center of gravity for safe highway towing. Trailers have an oversized jack to facilitate vehicle connection. Brakes are mounted on all four wheels and can be either electric or hydraulic. Goose-neck trailers are also available.

Hose Rack. Hose rack is made of tubular steel with 150' capacity.

Hoses & Fittings. Hoses are available in 50' (15.2m) sections with a minimum burst of 2.5 times the working pressure. Stainless steel quick connect couplers are available for 10, 15 or 20 KPSI working pressure.

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Your local distributor/representative is: