600 SERIES

Liqua-Blasters® Up To 200 HP

Pressures from 4,000 PSI - 40,000 PSI

Flows to 60 GPM

GARDNER DENVER WATER JETTING SYSTEMS INC.

Versatile High-Pressure Water Jetting



This 636DT is fully equipped with an air compressor and tank, a water tank, pump filtration and a hose rack. The Partek TF-375UH triplex pump pushes 6.9GPM at 36,000 PSI.

Gardner Denver Water Jetting Systems, Inc. offers the most complete line of high-pressure water jetting units in the industry with more choices to solve your cleaning problems. Gardner Denver designs and manufactures water-jetting equipment with one goal in mind: to give our customers a cost-effective, rugged, dependable machine. By combining the exceptional efficiency of the Partek® TF-375 pump with a correctly-sized power unit and drive train, Gardner Denver has created a perfectly-engineered system that will provide more useable energy than any other water-jetting product on the market.

Whether you choose the 150 HP, 170 HP or 200 HP model, each Liqua-Blaster® 600 Series unit includes a Partek® TF-375 pump with three fluid end options, diesel engine or electric motor, belt drive system, pump filtration, fuel tank (for diesel units), unit instrumentation and safety relief systems.

600 SERIES THE MOST VERSATILE AN

TY-375S/H/UH PUMP

The TY-375 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 (either diesel or electric) to the fluid end. Three standard fluid ends are offered for the TY-375; the standard "S" for pressures from 4,000 to 15,000 PSI, the "H" for pressures from 15,000 to 20,000 PSI and the UH for pressures up to 40,000 PSI.

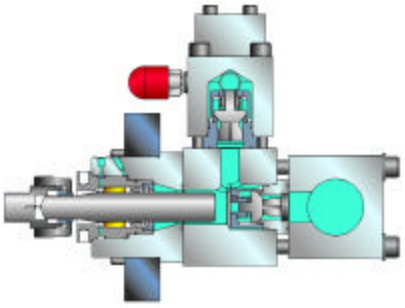
Fluid End

All of Partek's fluid ends share several features to significantly improve the pump's life, performance and maintainability.

- All high pressure components are constructed of special high strength stainless steel to eliminate corrosion and maximize strength.
- Suction manifolds are manufactured from aircraft grade aluminum. Stainless steel is available for salt water service.
- "L" style fluid cylinders and Inline style stuffing boxes and valve seats are *autofrettaged* to provide maximum strength and reliability.
- Partek fluid ends are designed to insure highest possible volumetric efficiencies, allowing the pump to operate at slower, life extending speeds.
- Plungers are non threaded, collet style for positive alignment and easy and rapid removal and replacement.
- 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.
- Partek's APC (advanced polymer composite) packing systems utilize space age materials 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.
- Valve seats utilize o-rings to facilitate sealing, reducing high internal stresses caused by traditional tapered valve seats.
- Packing loading is automatic by an internal spring, eliminating gland nut adjustments as on other pumps.

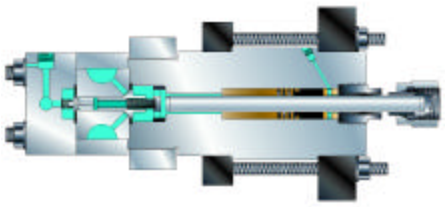
Standard "S" Operation to 15,000 PSI (TY-375S)

This simple design features easy removal of valves, plungers and packing for fast, efficient field maintenance. Plungers are colmonoy coated stainless steel or ceramic.



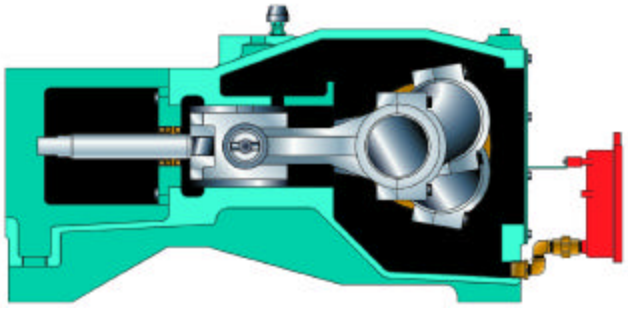
Inline–Operation from 15,000 to 40,000 PSI (TF-375H/UH)

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 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.



Power End

- Extra-heavy, steel crankshaft, tapered roller bearings and large cylindrical crossheads assure accurate alignment and long life.
- All components run in a heavy, precision machined cast iron frame.
- High-capacity, gravity splash oil system provides even, thorough lubrication.
- Double-lip baffle seals and splash deflectors avert power end oil contamination.
- Equipped with oil level sight gauge.



RELIABLE WATER-JETTING UNITS AVAILABLE.

UNIT PACKAGE

Diesel Power

- Fuel filters, dip stick, oil drain and other service points are conveniently located.
- Large, convenient engine-mounted instrument panel includes key ignition, vernier throttle control, low oil pressure and high water temperature shut down for maximum engine protection.
- Engine is equipped with front and rear cowling and a hood for added protection.
- 100 gallon fuel tank.
- A two-plate 11" or 14" clutched PTO installed between the engine and pump drive permits independent operation of the engine. Sealed pilot bearing eliminates frequent lubrication requirements.

Electric Power

The Liqua-Blaster 600 Series can also be equipped with an electric motor. The Model 600 utilizes a 150 HP motor, while the 600X model utilizes a 200 HP motor. Motors are available in TEFC, explosion proof or open drip enclosures with a variety of voltages and starting options.

Drive System

The Liqua-Blaster 100 Series uses a fully enclosed v-belt drive system that is conservatively rated. It is tolerant of minor misalignment.

Discharge Plumbing

- Gardner Denver Water Jetting Systems offers a wide variety of adapters to accommodate most applications.
- Pressure gauge is stainless-steel, glycerine-filled with an external snubber to extend gauge life.
- The Inline fluid end includes dual rupture discs for redundant over pressure protection.
- Standard “L” fluid ends are equipped with stainless steel relief valve and rupture disc assembly.

Suction Plumbing

- Suction piping is corrosion-resistant and includes a Y-strainer.

Base

The Liqua-Blaster 600 Series base is constructed of heavy 8-inch steel channel.

- Rigid skid design allows unit to be lifted and moved without causing drive misalignment.
- The entire footprint of the engine and pump are welded directly to structural members providing an extremely strong, low vibration design.
- The skid surface is quarter-inch thick steel floor plate to create a safer, non-slip work surface and to enhance the structural integrity of the skid.
- Fork-lift slots are standard on skid units only.

OPTIONAL FEATURES

Water Tank. An 80-gallon stainless-steel tank is available.

Suction Dampener. Optional bladder style pulsation dampener minimizes potential for cavitation.

Trailer Mounting. 600 Series have four-wheel, 6,000-pound tandem axles with heavy-duty tongue, fenders, and hitch with interchangeable couplers to enable towing by almost any truck. Trailer units are safe for highway towing and have an oversized jack for easy vehicle connection. Brakes can be either electric or hydraulic surge.

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

Hoses, Rack & Fittings. Hoses are available in 50' (15.2m) sections with a minimum burst of 2.5 times the working pressure. Hose rack made of tubular steel with 150' capacity. Stainless steel quick connect couplers are available for 10,000, 15,000 or 20,000 PSI working pressure.

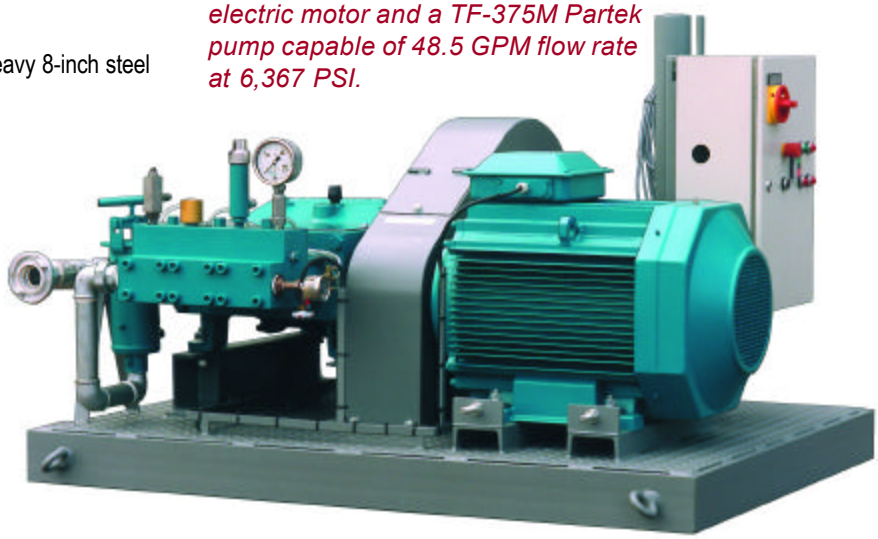
Lifting Eyes and/or Bail.

Whisperized® Enclosure. Allows you to use the unit in areas that have noise restrictions. Sound-attenuating enclosure covers the engine.

Filtration. Over-sized stainless steel filter delivers clean water to the pump to increase plunger, valve and packing life. 50 micron filtration is standard for 10,000 PSI; 10 micron is standard for 20,000 PSI.

Safety Shutdown. When power-end oil level falls below or over proper level, and/or inlet water pressure is too low.

A skid mounted Liqua-Blaster 600X unit with a 200 HP electric motor and a TF-375M Partek pump capable of 48.5 GPM flow rate at 6,367 PSI.



600 SERIES

CUSTOMIZATION

Over the years, customers of Gardner Denver Water Jetting Systems have requested some very specific modifications for our Liqua-Blaster water jetting units. From top mounted motors to extra-large water tanks, Gardner Denver Water Jetting Systems is able to build the unit that meets your exact specifications.

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.

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.

	UNIT	PRESSURE		FLOW		PLUNGER	
	Model	PSI	Bar	GPM	LPM	In.	mm
Model 600E: Electric 150 HP (112 kW)	604E	4,000	276	60	227.1	1.750	44
	610E	10,000	689	23	87.0	1.062	27
	616E	16,000	1103	15	56.8	0.875	22
	620E	20,000	1379	12	45.4	0.787	20
	640E	40,000	2758	6	22.7	0.562	18
Model 600D: Diesel 170 HP (127 kW)	604D	4,500	310	60	227.1	1.750	44
	612D	12,000	827	23	87.0	1.062	27
	615D	15,000	1034	17	64.3	0.944	24
	620D	20,000	1379	12	45.4	0.787	20
	640D	40,000	2758	6	22.7	0.562	18
Model 600X: Diesel/Electric 200 HP (149 kW)	605X	5,000	345	60	227.1	1.750	44
	610X	10,000	689	31	117.3	1.250	32
	615X	15,000	1034	20	75.7	1.000	25
	620X	20,000	1379	15	56.8	0.875	22
	640X	40,000	2758	10	37.8	0.708	18

	UNIT	HEIGHT		WIDTH		LENGTH		WEIGHT	
	Model	In.	mm	In.	mm	in.	mm	Lbs.	Kg
600 & 600X Approximate Weights & Dimensions	Diesel Skid	64	1626	72	1829	153	3886	8000	3629
	Diesel Trailer	79	2007	96	2438	204	5182	8500	3856
	Electric Skid	55	1397	72	1829	130	3302	6850	3107
	Electric Trailer	70	1778	96	2438	181	4597	7560	3429
600UH Approximate Weights & Dimensions	Diesel Skid	64	1626	72	1829	180	4572	8300	3765
	Diesel Trailer	90	2286	96	2438	231	5867	8800	3992
	Electric Skid	55	1397	72	1829	144	3658	7150	3243
	Electric Trailer	80	2032	96	2438	195	4953	7900	3583

- Consult factory for other plunger options.
- Flow rates based on 100% volumetric efficiency; ratings may vary according to engine/motor speed.
- Actual brake horsepower required varies and is dependent on pressure rating, displacement, fluid compressibility and both mechanical and volumetric efficiency.

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Your local distributor/representative is: