



# KAISZER PUMP

WATER & WASTEWATER TREATMENT

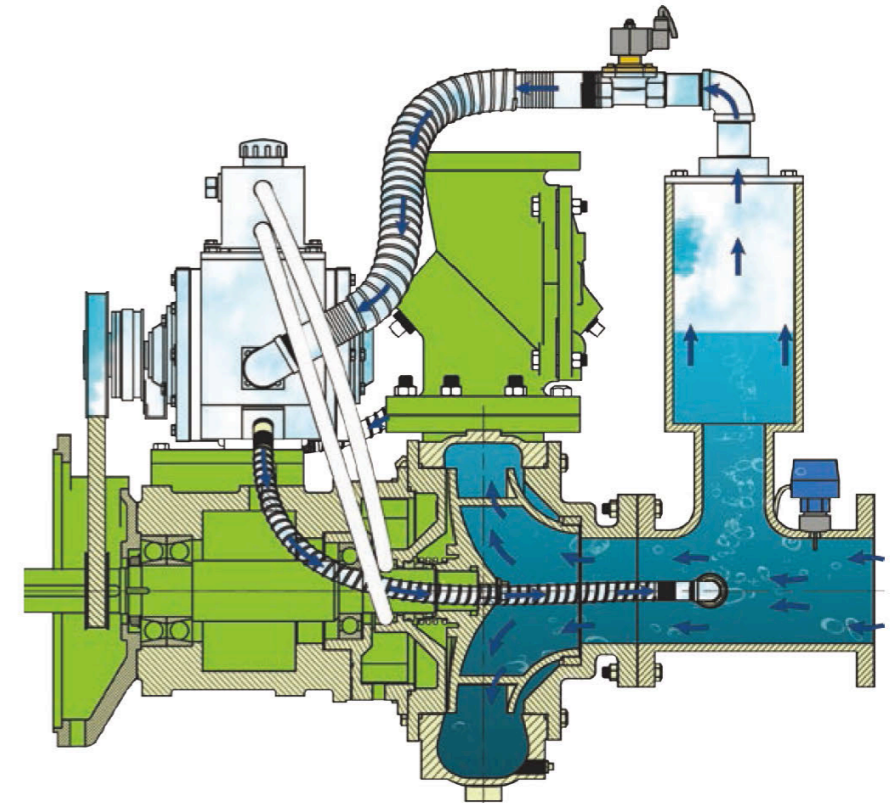
## BL- Shoot Prime Pumps.







From the moment BL pump was born, we started thinking about how different and how to create more value for our customers. Innovation is the beating heart of our team. We thrive to think out side the box to bring market a unique product that will bring great advantage and benefits. We challenge traditional quality control methods and innovatively created a production-inspection integrated process in our centrifugal pumps process. Innovation is the driving force during BL SHOOT-PRIME pumps design and development.



**Main Technical Data:**

Air Capacity: 112CFM\*  
 Suction Lift: 9M (29.5FT)\*  
 Prime Speed: 8 seconds\*\*

Note:\* When engine runs at 2200 rpm.  
 Note:\*\* Test was based on pump LHI50SI1 with a 10"x10' suction hose.





**ECO-FRIENDLY VACUUM PRIMING (EVP) SYSTEM**

BL Pump's EVP self-priming system utilizes a specially designed 3rd generation vacuum pump technology. EVP system enables any centrifugal pump finish priming within seconds to tens of seconds. It has extraordinary features like large air process capability, high vacuum, low operation temperature, maintenance-free, oil and mechanical seal free, etc., which sets up a new benchmark in the self-priming pump market.

**PRIME-SLEEP-PRIME (P-S-P) AUTO SWITCH SYSTEM**

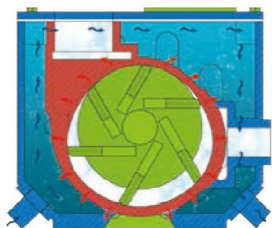
EVP system will be switched to sleep status automatically once priming is finished. When it is used for general purpose applications, the EVP system only operates for a few seconds for priming, which makes it almost unnecessary for daily maintenance or changing spare parts at its life cycle.

**DRY RUNNING PROTECTION SYSTEM**

SHOOTPRIME™ Pumps can run dry for a long time without damaging their mechanical seal due to the dry-running protection system, which consists of a normal mechanical seal, an oil chamber, and an oil reservoir. The oil chamber and oil reservoir are connected by two hoses and forms an oil circulating loop. As an option, the mechanical seal stationary seat can also be made with an air cushion design ed surface, which eliminates the use of oil lubrication in case of pump's long-time dry running. We can also use a set of lip seals to replace the mechanical seal as a second option 2, which makes the sealing result even better and subsequent maintenance easier.

**COOLING SYSTEM**

A pressurized cooling flush water is introduced from the centrifugal pump's water passage through an access port into the vacuum pump's water jacket, which contains the entire vacuum pump. Cooling water flows into the water jacket from one side through a suction hose and discharges from the other side, then returns back to the centrifugal pump's suction side through a discharge hose. Pressurized flushing water cools the vacuum pump quickly and brings most of the heat out of the vacuum pump's cavity, keeping the vacuum pump running at a very low temperature and giving the EVP system an extraordinarily long life.



**Option 1**



### EASY-TO-DISASSEMBLE STRUCTURE

It is very convenient to remove the vacuum pump's cover from its non-drive end, and slides can easily be pulled out for inspection or replacement. It is also easy to access the centrifugal pump's impeller, wear ring, and mechanical seal for inspection or maintenance without removing the diesel engine or the pump's frame since the centrifugal pump's suction cover can be fully opened.



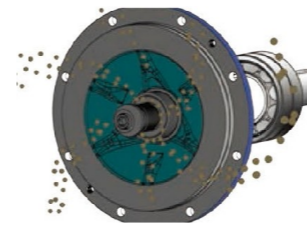
### NON-CLOGGING IMPELLER DESIGN

All the solids handling SHOOT-PRIME® Pumps are designed with a wide water passage impeller, which allows solids with 3" diameter or larger to pass through the impeller easily. SHOOT-PRIME® Pumps can be widely used in any critical application like sewage, sludge, and even processing fluid with large size stones.



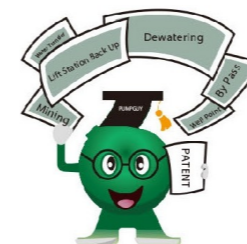
### SELF-CLEANING FUNCTION

SHOOT-PRIME® Pump's stuffing box is designed with a special structure to mix and discharge solids. Any small size solids or sands entering the stuffing box will be mixed by the mixers located on the wall of the stuffing box, and then discharged to the outside of the stuffing box with the centrifugal force generated by the impeller back vanes. This self-cleaning function efficiently prevents the mechanical seal spring from clogging by any solids or sands accumulated inside the stuffing box, thus avoiding any mechanical seal failures.



### PATENT PENDING TECHNOLOGY

SHOOT-PRIME® Pumps hold multiple patent-pending technologies. Because of the EVP Priming System's powerful function, it can be used in almost all aspects of the fluid industry, such as dewatering, by-pass, fire-fighting, lift station back-up system, mining, irrigation, water transfer and well point systems, etc.



### Option 2



### ECO-FRIENDLY BASE

Sound attenuated pump base is designed to contain any possible leakage from the pump, engine, or the internally installed fuel tank. A drainage port and plug is available to easily drain the leaked liquid. All SHOOT-PRIME® Pump bases are designed with large internal space to contain a minimum of 110% of the total capacity of the diesel tank and all engine fluids.



### AIR-WATER ISOLATOR

Vapor is normally generated during the vacuum pump's evacuation and then becomes either water or ice, staying inside of the vacuum pump when ambient temperatures are low. The accumulated water or ice is a big threat to the vacuum pump, especially in colder areas. Therefore, an air-water isolator is suggested to be installed in every SHOOT-PRIME® Pump to collect the vapor/ water before it enters into the vacuum pump.



### AUTOSTART /STOP CONTROL

The remote control is available when a water level sensor is installed on the pump to control the pump's start /stop automatically. A state-of-the-art microprocessor-based digital engine control monitors all engine functions including alarms. The control panel features an easy-to-read 32-character display. It is ideal for conserving fuel and preventing engine overhauls, and it comes standard on all SHOOT-PRIME® Pumps.





Pumps with \* marking are available as custom orders with expended delivery time .

Modell	Suction	Discharge	Impeller dia	Max flow	Max head	RPM
Head frame 1 ( Low )						
100C8	5" 127 mm	4" 101,60 mm	9" 228,60 mm	1300 GPM 295,26 m3/h	160' 48,77 m	2400
100S8	4" 101,60mm	4" 101,60 mm	8,25" 209,55 mm	1340 GPM 304,35 m3/h	120' 36,58 m	2200
100S10	4" 101,60 mm	4" 101,60 mm	10" 254 mm	1470 GPM 333,87 m3/h	150' 45,72 m	2000
125C10	6" 152,40 mm	5" 127 mm	10,9 " 276,86 mm	2300 GPM 522,39 m3/h	240' 73,15 m	2400
150S10	6" 152,40 mm	6" 152,40 mm	10" 254 mm	2650 GPM 601,88 m3/h	165' 50,29 m	2200
150S11	6" 152,40 mm	6" 152,40 mm	11" 279,40 mm	2900 GPM 658,66 m3/h	160' 48,77 m	2000
200S11	8" 203,20 mm	8" 203,20 mm	11" 279,40 mm	4000 GPM 908,50 m3/h	145' 44,20 m	2000
200S12	8" 203,20 mm	8" 203,20 mm	12,25" 311,15 mm	4500 GPM 1022,06 m3/h	197' 60,05 m	2000
350S21	14" 355,60 mm	14" 355,60 mm	21,2" 538,48 mm	12700 GPM 2884,48 m3/h	200' 60,96 m	1200
500S39C*	20" 508 mm	20" 508 mm	39" 990,60 mm	20.680 GPM 4996,94m3/h	183' 55,78 m	585
600S33A*	24" 609,60 mm	24" 609,60 mm	33" 838,20 mm	26.400 GPM 5996,09 m3/h	107' 32,61 m	585
750S33A*	30" 762 mm	30" 762 mm	33" 838,20 mm	37.400 GPM 8494,46 m3/h	65' 19,81 m	485
1050S46B*	42" 1066,80 mm	42" 1066,80 mm	46" 1168,40 mm	66.000 GPM 249,84 m3/min	85' 25,91 m	360

Modell	Suction	Discharge	Impeller dia	Max flow	Max head	RPM
Head frame 2 ( Medium )						
80C14	5" 127 mm	3" 76,20 mm	13,5" 342,90mm	930 GPM 311,23 m3/h	295' 89,92 m	2200
100C14	5" 127 mm	4" 101,60 mm	13,5" 342,90 mm	1000 GPM 227,12 m3/h	305' 92,96 m	2200
100S14	4" 101,60 mm	4" 101,60 mm	14" 355,60 mm	1650 GPM 374,76 m3/h	425' 129,54 m	2300
125C14	6" 152,40 mm	5" 127 mm	13,5 " 342,90 mm	2400 GPM 545,10 m3/h	340' 103,63 m	2300
150C14	8" 203,20 mm	6" 152,40 mm	13,5" 342,90 mm	2700 GPM 613,24 m3/h	270' 82,30 m	2100
150C17	8" 203,20 mm	6" 152,40 mm	17,2" 436,88 mm	3200 GPM 726,80 m3/h	370' 112,78 m	1900
150S12	6" 152,40 mm	6" 152,40 mm	12" 304,80 mm	3100 GPM 704,09 m3/h	242' 73,76 m	2200
150S14E	6" 152,40 mm	6" 152,40 mm	14" 355,60 mm	2950 GPM 670,02 m3/h	290' 88,39 m	2000
150S14F	6" 152,40 mm	6" 152,40 mm	14" 355,60 mm	3300 GPM 749,51 m3/h	270' 82,30 m	2000
200C14	10" 254 mm	8" 203,20 mm	13,5" 342,90 mm	4800 GPM 1090,20 m3/h	190' 57,91 m	1800
200C17	10" 254 mm	8" 203,20 mm	17,2" 436,88 mm	4800 GPM 1090,20 m3/h	320' 97,54 m	1800
200S17	10" 254 mm	8" 203,20 mm	17,5" 444,50 mm	7000 GPM 1589,87 m3/h	440' 134,11 m	2000
300S17	12" 304,80 mm	12" 304,80 mm	17,25" 438,15 mm	9000 GPM 2044,12 m3/h	300' 91,44 m	1780

Modell	Suction	Discharge	Impeller dia	Max flow	Max head	RPM
Head frame 3 ( High )						
100C90	4" 101,60 mm	3" 76,20 mm	19,5" 495,30 mm	770 GPM 174,89 m <sup>3</sup> /h	710' 216,41 m	2400
125C17E	5" 127 mm	3" 76,20 mm	17,2" 436,88 mm	880 GPM 199,87 m <sup>3</sup> /h	560' 170,69 m	2300
125C17F	5" 127 mm	4" 101,60 mm	17,2" 436,88 mm	1300 GPM 295,26 m <sup>3</sup> /h	560' 170,69 m	2300
125C21	5" 127 mm	4" 101,60 mm	21,5 " 546,10 mm	1250 GPM 283,91 m <sup>3</sup> /h	520' 158,50 m	1800
150C17	6" 152,40 mm	5" 127 mm	17,2" 436,88 mm	2290 GPM 520,12 m <sup>3</sup> /h	550' 167,64 m	2300
150C21	6" 152,40 mm	5" 127 mm	21,5" 546,10 mm	2250 GPM 511,03 m <sup>3</sup> /h	520' 158,50 m	1800
150C22	6" 152,40 mm	4" 101,60 mm	22" 558,80 mm	1600 GPM 363,40 m <sup>3</sup> /h	660' 201,70 m	1900
200C21	8" 203,20 mm	6" 152,40 mm	21,5" 546,10 mm	3590 GPM 815,38 m <sup>3</sup> /h	510' 155,45 m	1800
200S22	8" 203,20 mm	6" 152,40 mm	22" 558,80 mm	4150 GPM 942,57 m <sup>3</sup> /h	640' 195,07 m	1900
250S22	10" 254 mm	8" 203,20 mm	22" 558,80 mm	8600 GPM 1953,27 m <sup>3</sup> /h	590' 179,83 m	1800
300S22	12" 304,80 mm	8" 203,20 mm	22" 558,80 mm	10500 GPM 2384,81 m <sup>3</sup> /h	760' 231,61 m	2100



**Trailer & Container:**



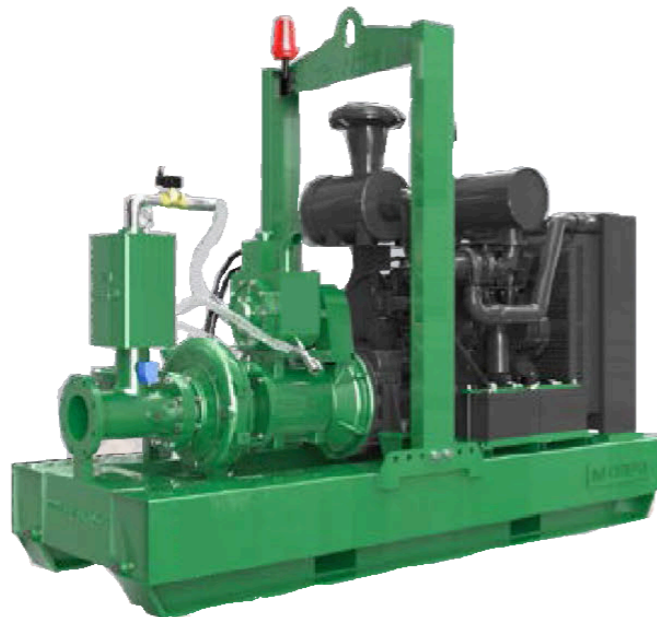
**Applications:**

- Construction
- Industry
- Municipal
- Mining
- Dewatering
- Agriculture
- Industrial waste
- Sewage
- Oil field
- Petrol chemical
- High pressure liquid transfer
- Paper mills
- Manure slurry

**Size of solids:**

1,9 cm - 14,9 cm

**Base plate:**



**Trailer:**

