

INSTANT-PRIME™ PUMPS

Designed in USA & Patent Pending

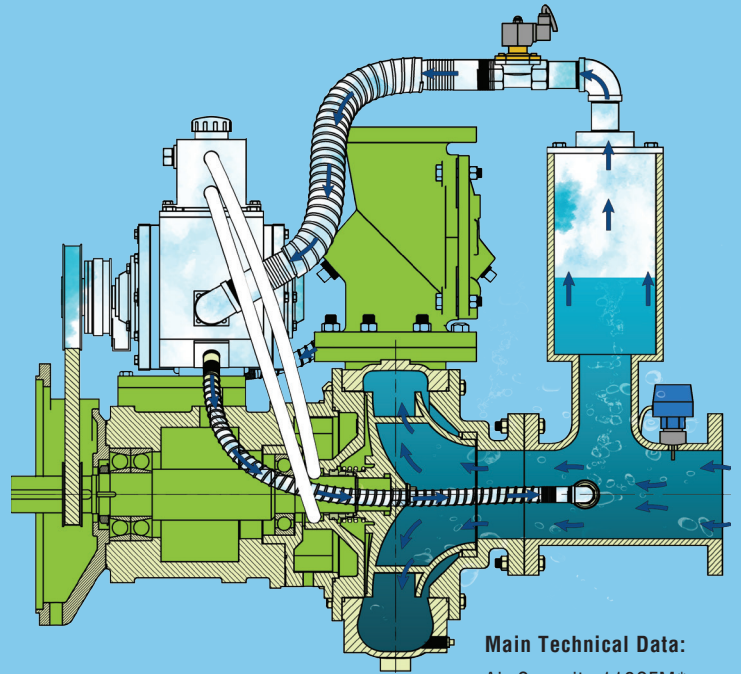


All In One Pump Applications:

- *Dewatering*
- *By Pass*
- *Lift Station Back Up*
- *Well Point*
- *Water Transfer*
- *Mining*

About Instant-Prime Pumps

AMOS pump designed the best Instant-Prime Pumps with our soul and heart. Before we design, an extensive discussion will be hold within our team, and everybody tells what our “Baby” will look like, what unique and outstanding functions shall we pursue, what material shall we select to make sure it will have a strong body. All ideas and proposals will be filtered, optimized and improved so as to make sure our baby will win huge advantages after his born. Just like the IT industry, we have also actively invited our customers from all over the world to participate into this interesting design process. Instant-Prime Pumps are finally born in the world with a joint efforts of our great customers and GSPS team. We are now ready to challenge the world.



Main Technical Data:
Air Capacity:112CFM*
Suction Lift:8.8M*
Prime Speed:4 seconds**

Note:* When engine runs at 2200 rpm.
Note:** Test was based on pump LH150S11 with a 10"x10' suction hose.

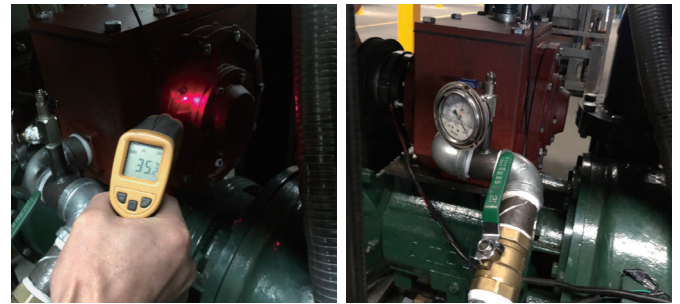
From the moment of AMOS' born, we started thinking about how to be different and how to create more value for our customers. We tried to think outside the box to see how to make an unique product. Innovation is the beating note in our team's minds. We were desiring to build a great product so that everybody can benefit from it. We challenged traditional quality control method and innovatively created a production-inspection integrated process in our centrifugal pumps' production. Innovation is the driven force during AMOS Instant-Prime pump's design and development.





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We believe product quality is the key to success. We focus on every component even a bolt to make sure they are not the weakest links in our system. Various type of tests were conducted in the past two years, some paticular tests were repeated over ten thousand times. Our target is to find out all the patential problems before we introduce these pumps onto the market.



Durability and reliability can't define product's quality completely, and we think more. We improve our product performance index in all aspects and make the impossible to be possible, which makes more sense to the meaning of quality, i.e capability. We care the quality more than we do to our life.

By partnering with the most advanced diesel engine leaders like Cat, Commins, Deutz, Hatz etc, and together with some very known control panel manufacturers in the world, we want to make sure we are using the best components to build all our equipment. In AMOS, we think what the customer thinks.



AMOS pump has the-state-of-the-art fabrication center in China, and we rely on our intelligent fabrication team which consists of laser cutters, CNC benders, Welding robots, high precision assembling tables and the smartest fabricators.



Every Instant-Prime pump is 100% made in house, including centrifugal pump, vacuum pump, skid, trailer or canopy. We have a huge production capability both in China and Houston. For the standard designed products we normally fabricate them in China, while for a special or emergency order, we will make them in Houston workshop.

Fabrication job seems easy, but high quality fabricated pump packages can never be as easy as thought. We invested huge money to import high precision assembling tables from Europe and they are playing a very important role in our coping and assembling process for manufacturing pump skids, fuel tanks and canopies.



Core Technology



1 ECO Friendly Vacuum Priming System

AMOS 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 self-priming pump market.

2 P-S-P Auto Switch System (Prime-Sleep-Prime)

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

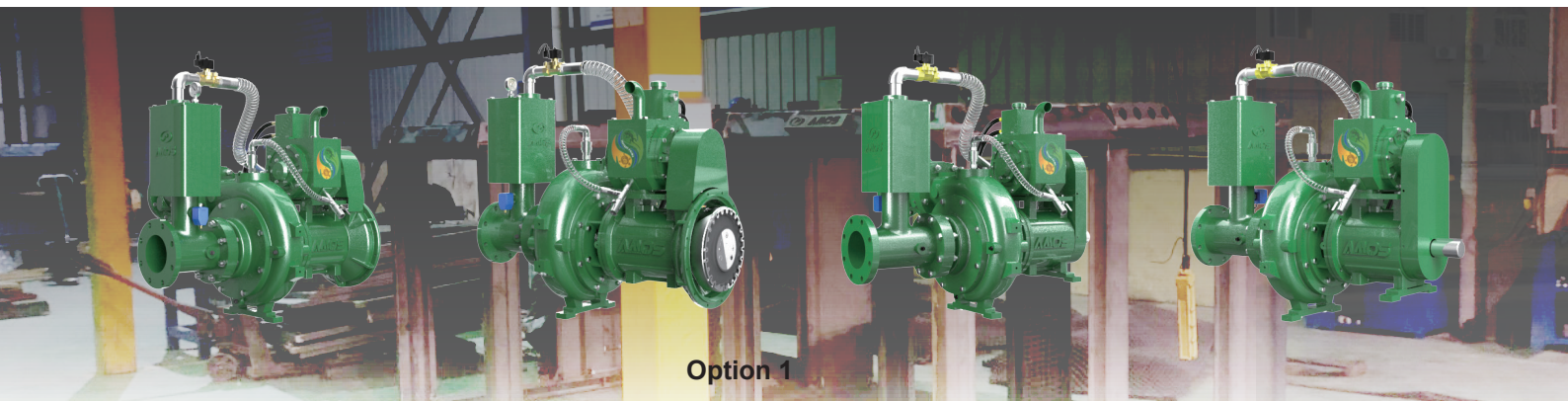
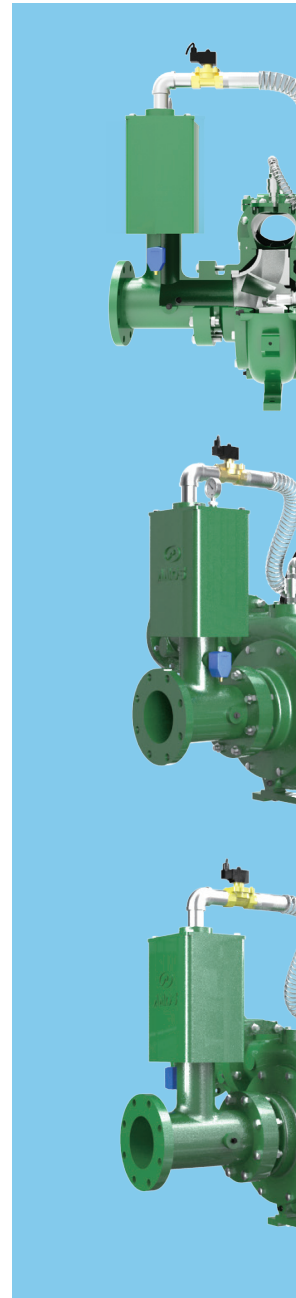
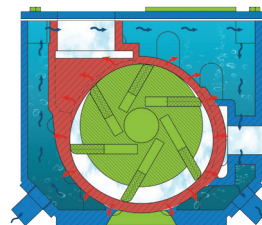


4 Cooling System

A pressurized cooling flush water is introduced from centrifugal pump's water passage through an access port into 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, which keeps the vacuum pump run at a very low temperature and makes the EVP system has an extraordinary long life.

3 Dry Running Protection System

Instant-Prime pumps can run dry for a long time without damaging its mechanical seal due to its 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 designed 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 option 2, and it makes the sealing result even better and subsequent maintenance easier.





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5 Easy Disassembling Structure

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



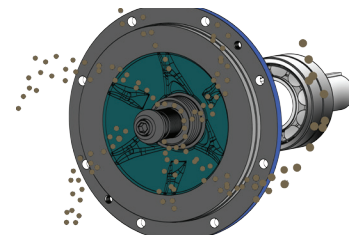
6 Non-Clogging Impeller Design

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



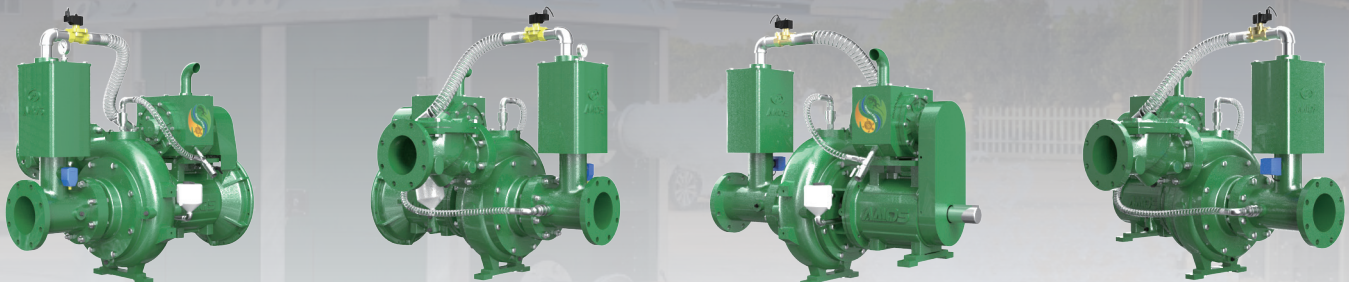
7 Self Cleaning Function

Instant-Prime pump's stuffing box was designed with a special structure to mix and discharge solids. Any small size solids or sands entering into the stuffing box will be mixed by the mixers located on the wall of stuffing box, and then be discharged to the outside of the stuffing box with the centrifugal force generated by the impeller back vanes. This self cleaning function keeps the mechanical seal spring from clogging by any solids or sands accumulated inside of the stuffing box efficiently so as to avoid any mechanical seal failure.

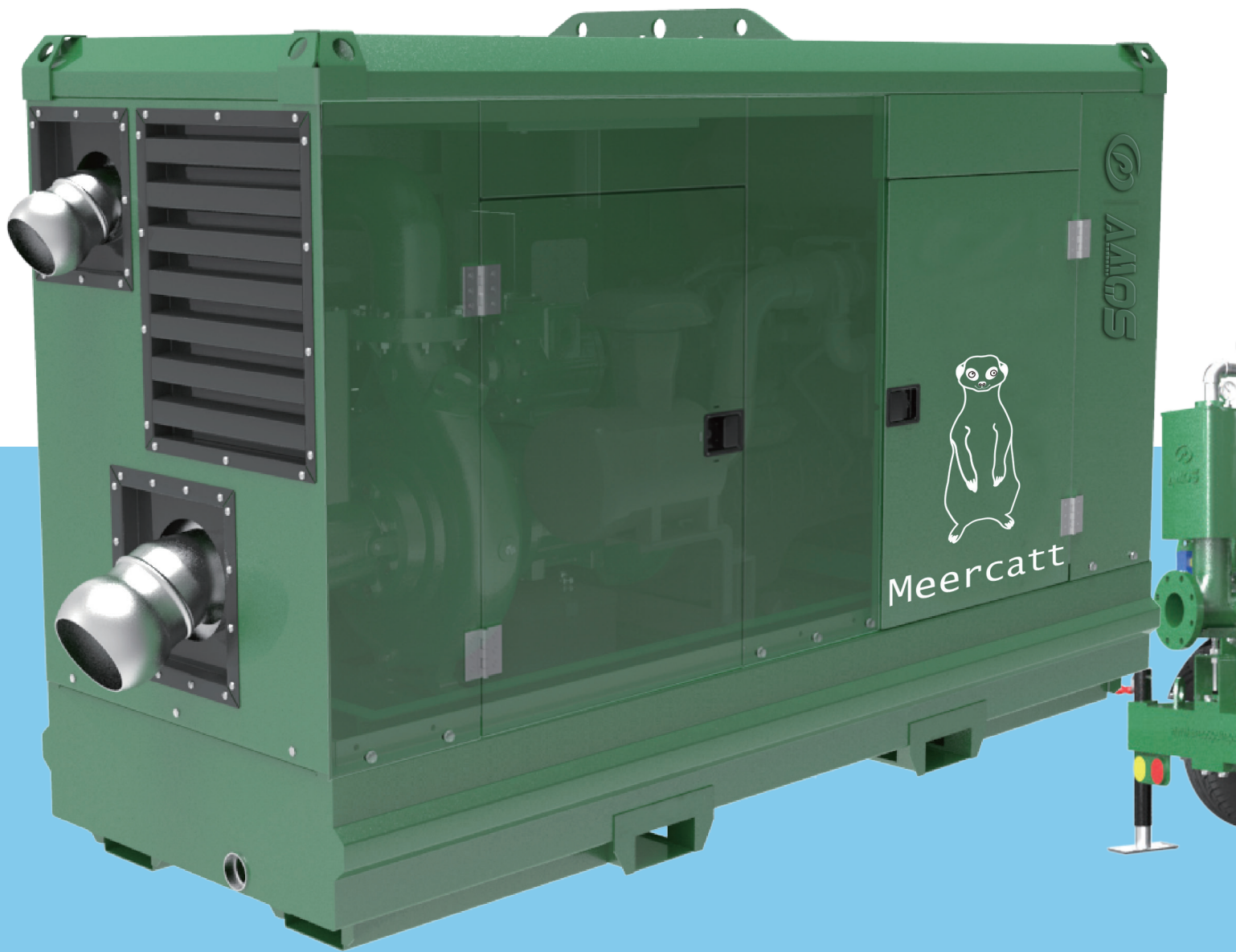


8 Patent Pending Technology

Instant-Prime Pumps own multiple patent pending technologies. Because of EVP Priming system's powerful function, they can be used in almost all aspects of fluid industry, such as Dewatering, By-Pass, Fire-Fighting, Lift station back up system, mining, irrigation, water transfer and well point system etc.



Designed For New Era



ECO Friendly Base

Attenuated pump base was designed to contain any possible leakages from pump, engine or from internally installed fuel tank. A drainage port and plug are available for easily draining the leaked liquid. All Instant-Prime Pump base was designed with a large internal space so as to contain Min 110% of the total capacity of the diesel tank and all engine fluids.

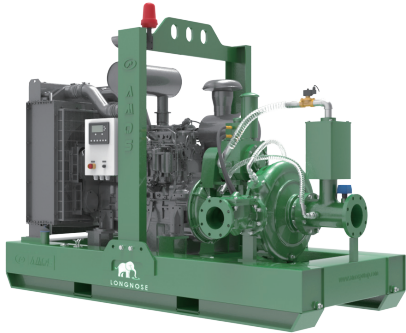


Air-Water Isolator

Vapor is normally generated during vacuum pump's evacuation, and then becomes either water or ice staying inside of the vacuum pump when ambient temperature is low. The accumulated water or ice is a big threat to vacuum pump especially in cold area. So an air-water isolator is suggested to be installed in every Instant-Prime pump to collect the vapor/water before it enters into the vacuum pump.



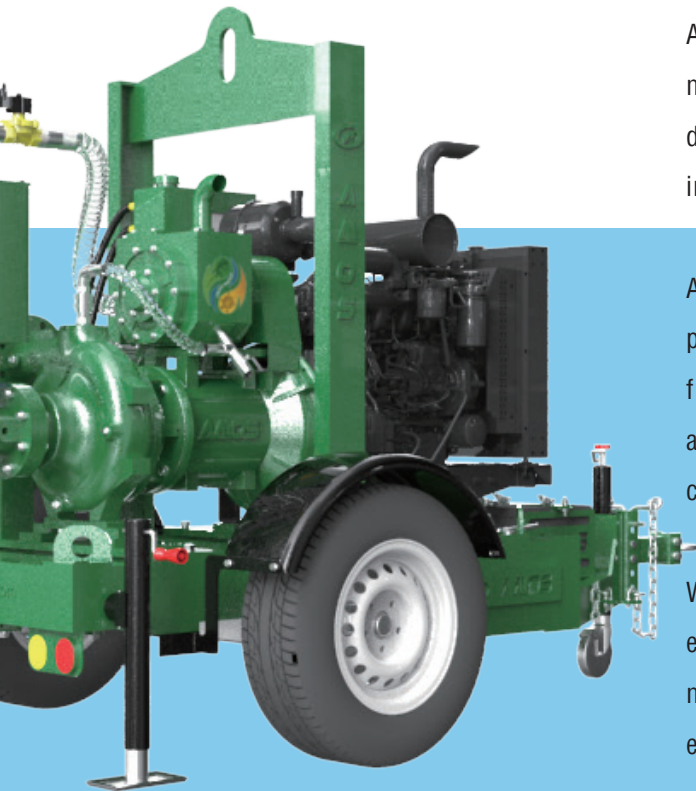
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AMOS pump conducts a supreme standard for all Instant-Prime pumps.

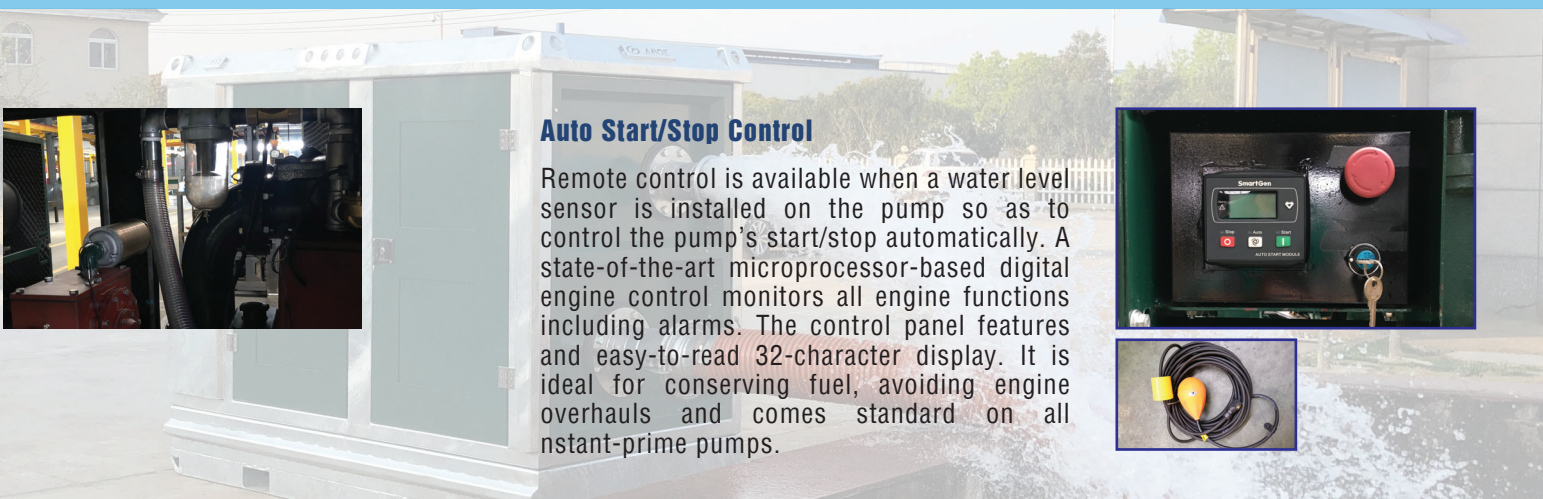
Beside hot galvanizing all the canopy steel structure components like base, fuel tank, panels and roofs, we also hot galvanize all the skid and trailer upon customers' requests.

All Instant-Prime pumps' canopies can be dismantled and that means we don't need replace the whole canopy if it is only partially damaged. This is a significant design advantage for today's increasingly fierce competition market.



All Instant-Prime attenuated pumps were designed with forklift ports on four sides which provides our customers with more flexibility when loading and downloading. What's more, all our attenuated pumps can be stackable and it will enable our customers stock more pumps in their limited warehouse space.

We use the most modern and cleanest engine in the world and every canopy's design will be approved by our engine's manufacturer or their reps before we plan to use any of their engines.



Auto Start/Stop Control

Remote is available when a water level sensor is installed on the pump so as 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, avoiding engine overhauls and comes standard on all instant-prime pumps.



Instant-Prime™ Pump Selection Chart



AMOS INSTANT-PRIME™ PUMPS

Model	Suction Size	Discharge Size	Impeller Dia.	Max. Flow	Max. Head	Max. Solids	RPM
LH100S8	4"	4"	8"	1400GPM	120'	3"	2200
LH100S10	4"	4"	10"	1700GPM	150'	3"	2000
LH150S10	6"	6"	10"	2600GPM	168'	3"	2200
LH150S11	6"	6"	11"	2700GPM	160'	3"	2000
LH200S11	8"	8"	11"	4400GPM	145'	3"	2000
LH200S12	8"	8"	12.25"	4400GPM	170'	3"	1800
LH250S12	10"	10"	12"	5280GPM	116'	4"	1800
LH300S15	12"	12"	15"	6600GPM	108'	4"	1250
LH350S21	14"	14"	24"	12320GPM	200'	3.58"	1000
★LH500S39C	20"	20"	39"	20680GPM	183'	5.98"	585
★LH600S33A	24"	24"	33"	26400GPM	107'	6.5"	585
★LH750S33A	30"	30"	33"	37400GPM	65'	8"	485
★LH1050S46B	42"	42"	46"	66000GPM	85'	9.8"	360
MH100S14	4"	4"	14"	1650GPM	425'	3"	2300
MH150S14F	6"	6"	14"	3100GPM	270'	3"	2000
MH150S14E	6"	6"	14"	3000GPM	290'	3"	2000
MH200S17	10"	8"	17"	6800GPM	440'	3.5"	2000
MH300S17	12"	12"	17"	9000GPM	300'	3.75"	1780
MH80C14	5"	3"	14"	950GPM	354'	Clean Water	3000
MH100C14	5"	4"	14"	1260GPM	340'	Clean Water	3000
MH125C14	6"	5"	14"	2376GPM	340'	Clean Water	2500
MH150C14	8"	6"	14"	2700GPM	280'	Clean Water	2100
MH200C14	10"	8"	14"	4750GPM	175'	Clean Water	1800
MH150C17	8"	6"	17"	3168GPM	370'	Clean Water	1900
MH200C17	10"	8"	17"	4900GPM	320'	Clean Water	1800
HH100C19	4"	3"	19"	800GPM	800'	Clean Water	2400
HH125C17E	5"	3"	17"	880GPM	564'	Clean Water	2300
HH125C17F	5"	4"	17"	1260GPM	557'	Clean Water	2300
HH125C21	5"	4"	21"	1200GPM	520'	Clean Water	1800
HH150C22	6"	4"	22"	1650GPM	600'	Clean Water	1900
HH150C17	6"	5"	17"	2100GPM	550'	Clean Water	2300
HH150C21	6"	5"	21"	2200GPM	530'	Clean Water	1800
HH200C21	8"	6"	21"	3500GPM	510'	Clean Water	1800
HH200S22	8"	6"	22"	4200GPM	640'	2"	1900
HH250S22	10"	8"	22"	8400GPM	590'	4"	1800
HH300S22	12"	8"	22"	10560GPM	780'	3"	2000

Remarks: ★models will be available upon customer's special order with a longer lead time.

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