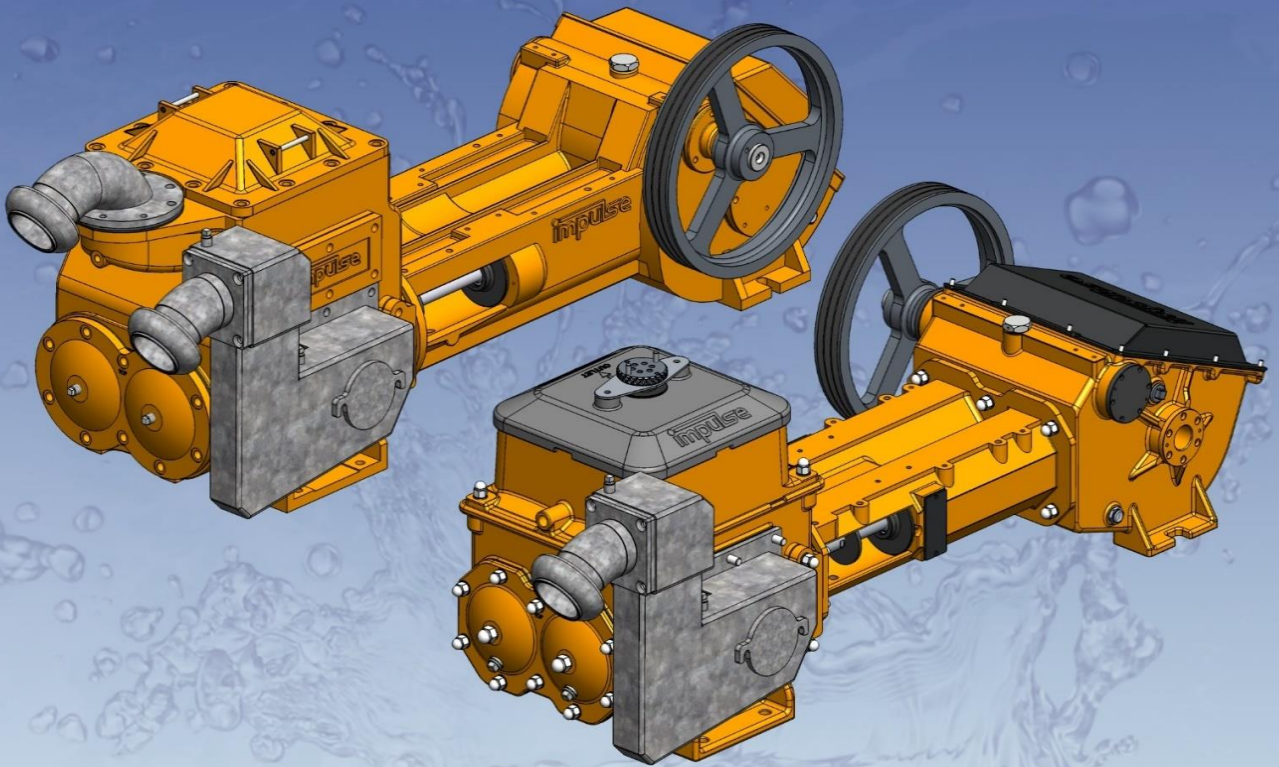




IP-175 / IP-PRO

DOUBLE ACTING RECIPROCATING PISTON PUMPS



INTRODUCTION – IP-175 SERIES



Our IP-Series Dewatering Pump is a reliable and efficient solution for lowering groundwater tables needed during excavation and construction projects. Robust, reliable, and easy to work with for demanding conditions.

IP-175 / IP-Pro Applications

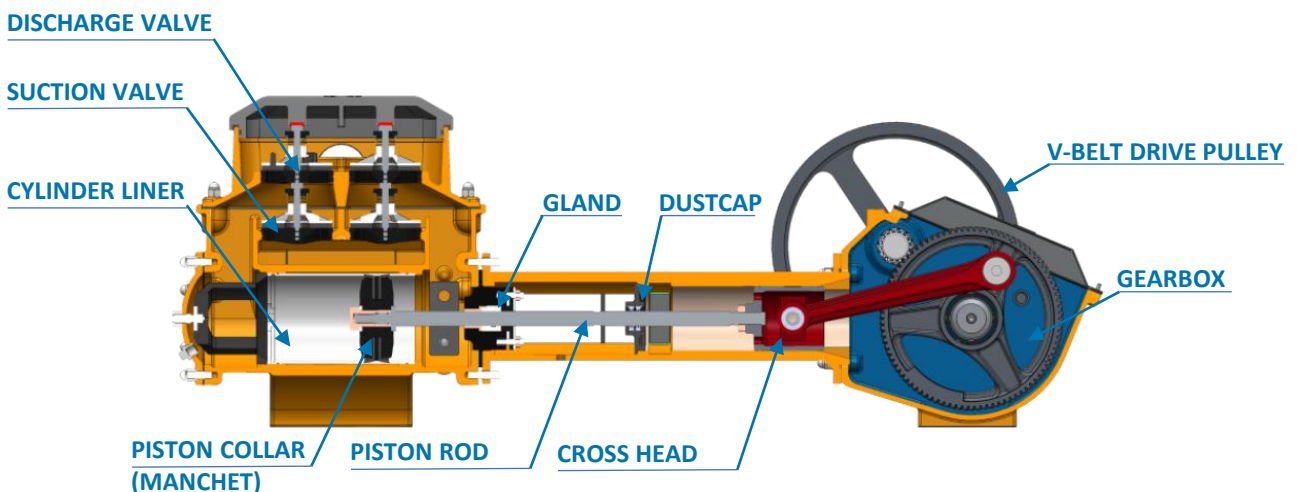
IP-175 series reciprocated double-acting dewatering pumps are designed and developed for both short- and long-term dewatering needs. Those pumps offer you continuous operation, ensuring a constant and uninterrupted dewatering process. These IP-series pumps are highly efficient, robust, reliable, and constructed according to the needs and wishes of dewatering pumps.

The advantage of using piston pumps instead of centrifugal dewatering pumps is the capability to pump air and water mixtures together without using an additional vacuum system. This construction makes the pump highly efficient, extremely reliable, and very easy to use.

For almost a century these pumps have been used for short and long-term dewatering projects in the Netherlands, Belgium, and the northern part of Germany. In the last two/three decades this pump gained a lot of popularity all over the world. Especially after the world became more focused on reducing energy consumption the need for fuel-efficient pumps increased.

Impulse has always been the front leader in low energy consumption in the products we create. Products are developed and designed based on the needs and wishes of our customers.

The IP-PRO Dewatering Pump represents the latest pinnacle inefficient mobile pump units designed for groundwater displacement tasks. Through the IP-Pro model Impulse demonstrates that even designs that have remained unchanged for decades can be enhanced across multiple aspects.



- Robust performance
- High Quality
- Fuel Efficient

Impossible to live without water

IP-175 / IP-PRO – Specifications



Pump specifications:

Series.....	IP-175 / IP-Pro
Max. capacity.....	82 m ³ /h (360 gal/min)
Max. head.....	22 m (72 ft)
Max. vacuum.....	9.8 m (32 ft)
Cylinder diameter.....	175 mm
Drive.....	V-belt driven
RPM.....	~400 rpm on pulley

MATERIALS

Impulse pumps are produced from materials suitable for fulfilling their purpose. The main body is produced out of a cast iron mixture (>GG25) which has been made already far better resistant for salty-water purposes compared to standard and conventionally used cast iron materials.

Piston rods are made out of corrosion-resistant stainless steel SS304. Our valve weights, spring washers, and some more components are manufactured out of innovative and durable corrosion resistant injection molded composite. This optimizes the quality-cost ratio.

DIFFERENCES

The IP-Pro design is based on the IP-175 but has new innovative and revolutionary features. The gearbox is designed without the need to use a crankshaft. This reduces internal friction and saves operational costs and energy. The pumphouse can be maintained quickly with the IP-PRO design.

USAGE

Piston pumps are clean water pumps and it's recommended to always use the pump in combination with a leak free vertical well-point filter system or by horizontal French drain tube.



Horizontal French drain system



Vertical well-point system

- Robust
- Easy to maintain
- Fuel Efficient

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Yamuna – Specifications



The Yamuna model contains an IP-175 series pump which is driven by a single-cylinder diesel engine. The pump and engine are fitted in noise damping enclosure (canopy) and can be operated from the outside of the canopy.



Pump specifications:

Type.....	Yamuna Diesel ECU-Canbus
Series.....	IP-175 / IP-Pro
Max. capacity.....	82 m ³ /h (360 gal/min)
Max. head.....	22 m (72 ft)
Max. vacuum.....	9.5 m (31 ft)
Engine.....	Hatz 1D90E-Z
Canopy.....	Standard Size Canopy
Suction/Discharge.....	4 inch Quick Connection
Weight.....	1950 kg
Fuel consumption.....	0.9 L/h

APPLICATION

The Yamuna is one of a kind. This pump is known for its incredible efficiency and reliability. The Yamuna model is designed to be able to load the unit square on a trailer, stack the unit in storage, and run for 10 days continuously on its own fuel tank.

VARIATIONS

The Yamuna models are available in three different variations. These are designed such that they match your specific needs or environmental regulations. The variations are IP-175 Mechanical, IP-175 ECU-Canbus, and IP-Pro ECU-Canbus.

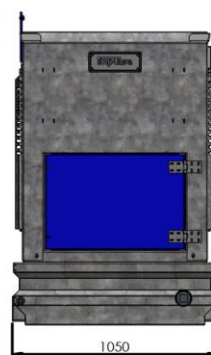
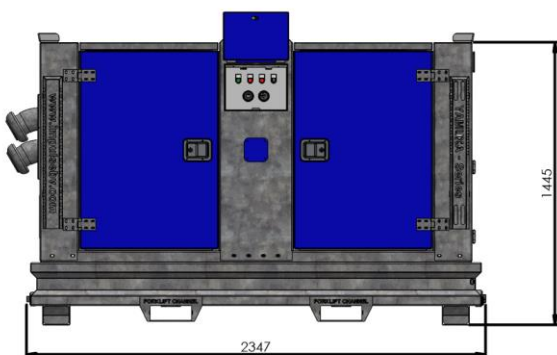
PERFORMANCE

Our IP pumps are known for their long durability and robust operation. Uninterrupted pumping is possible due to the low maintenance and stable performance.



CONTROLLER (ECU EQUIPED ENGINE)

Provided with a low and high speed mode. High to Low speed can be selected after groundwater level has reached the required dept. The controller is as simple, however can easily reduce the fuel consumption up to 15% after selecting the low speed mode.



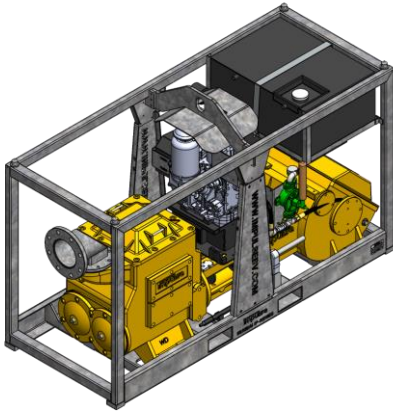
- Robust
- Easy to maintain
- Fuel Efficient

Impossible to live without water

AbuDhabi – Specifications



The Abu Dhabi double acting IP-175 piston pump configuration is extremely popular in the pipeline construction (oil- and gas) industry all around the world.



Pump specifications:

Type.....	AbuDhabi
Series.....	IP-175
Max. capacity.....	82 m ³ /h (360 gal/min)
Max. head.....	22 m (72 ft)
Max. vacuum.....	9.5 m (31 ft)
Engine.....	Hatz 1D81S Manual Start
Canopy.....	Open Structure
Suction/Discharge.....	DIN 150 Flanges
Weight.....	1300 kg
Fuel consumption.....	0.8 L/h

APPLICATION

The Impulse Abu Dhabi IP-175 is a diesel-driven piston pump built in an open structure and designed to operate in remote areas of the world. This unit has a lot of details that are designed to be used in remote areas.

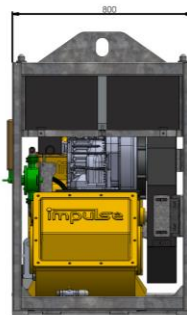
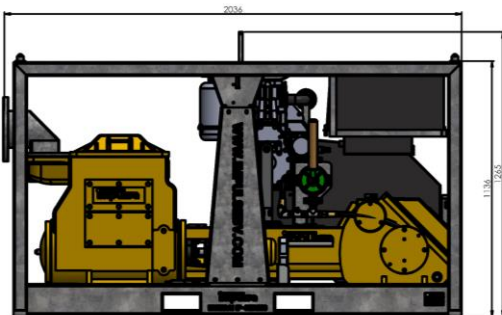


PERFORMANCE

Our IP pumps are known for their long durability and robust operation. Uninterrupted pumping is possible due to the low maintenance and stable performance.

FEATURES

The focus of this design is to be able to transport 14 fully built and completed units into a standard 20 ft sea container. This pump is always used for lowering groundwater levels where the pump is connected to vertical points or horizontal drain systems. The pump has a limited solid handling capability and should be used for clear water.



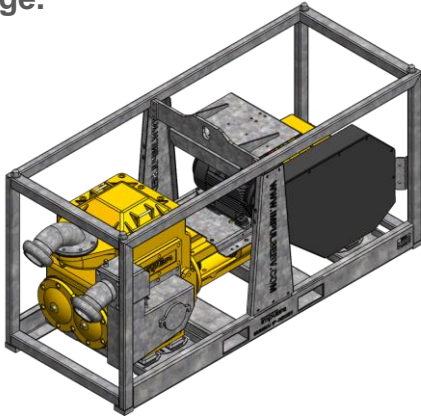
- Robust
- Easy to maintain
- Fuel Efficient

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Mumbai – Specifications



The Mumbai IP-175 is an electric-driven piston pump built in an open structure. The design of this model gives the advantage of loading 3 pieces side-by-side on a truck or stacking them up to 4 units high in storage.



Pump specifications:

Type.....	Mumbai (Electric)
Series.....	IP-175
Max. capacity.....	82 m ³ /h (360 gal/min)
Max. head.....	22 m (72 ft)
Max. vacuum.....	9.5 m (31 ft)
Engine.....	7.5 kW IE3 Electric Engine
Canopy.....	Open Structure
Suction/Discharge.....	4 inch
Weight.....	1215 kg

APPLICATION

The Mumbai IP-175 is the electric-driven piston pump built in an open structure and has been known as the absolute top in all the aspects of design and performance of mobile dewatering pumps for many years.

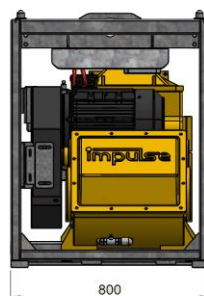
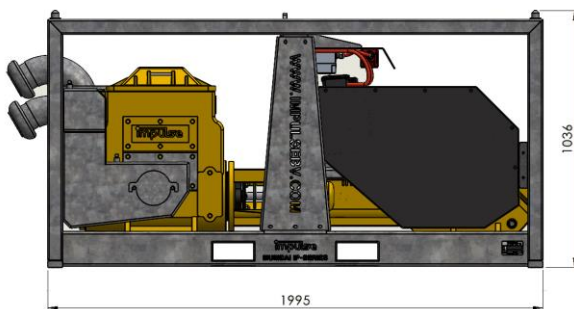
This pump is always used for lowering groundwater levels where the pump is connected to vertical well points or horizontal drain systems. The pump has a limited solid handling capability.

PERFORMANCE

Our IP pumps are known for their long durability and robust operation. Uninterrupted pumping is possible due to the low maintenance and stable performance.

FEATURES

Transportation, weight, dimensions, lifting, efficiency, maintenance, reliability, easiness overall, and the recognizable design of an Impulse unit have it all brought to a level where no more wishes can be assumed anymore.



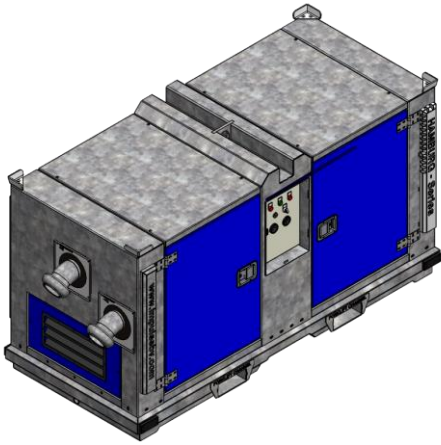
- Robust
- Easy to maintain
- Fuel Efficient

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Hamburg – Specifications



The Hamburg model dewatering pump is an electric driven IP-175 pump build in a super silent enclosure (canopy). This models is very popular to use in urban areas where noise disturbance is not desirable.



Pump specifications:

Type.....	Hamburg Diesel
Series.....	IP-175/IP-Pro
Max. capacity.....	82 m ³ /h (360 gal/min)
Max. head.....	22 m (72 ft)
Max. vacuum.....	9.5 m (31 ft)
Engine.....	7.5 kW IE3 Electric Engine
Canopy.....	Standard Canopy
Suction/Discharge.....	4 inch
Weight.....	1600 kg

APPLICATION

The electric-driven Hamburg pump is the ultimate choice for professionals in need of a durable and high-powered pump for all kinds of dewatering projects in urban areas.

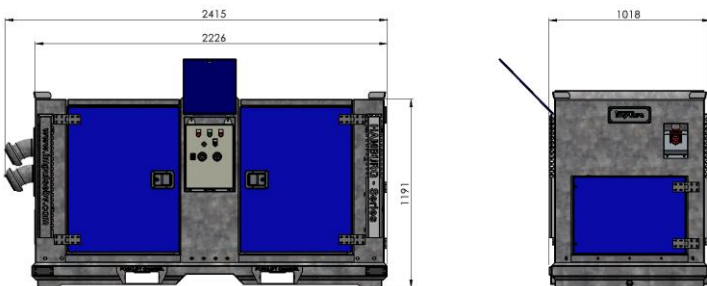
Residents living close to the construction area requiring dewatering will experience minimal disruptions, thanks to the implementation of this Hamburg configuration.

PERFORMANCE

Our IP pumps are known for long durability and robust operation. Uninterrupted pumping is possible due to the low maintenance and stable performance.

FEATURES

This pump is very popular for users operating in urban areas. There is zero emission output created by the unit. The pump is also super silent due to its canopy.



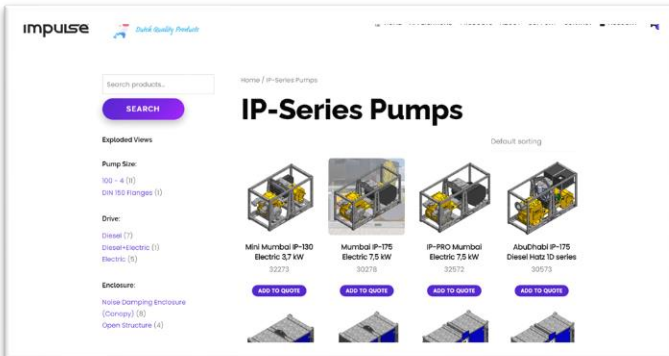
- Robust
- Easy to maintain
- Fuel Efficient

Impossible to live without water

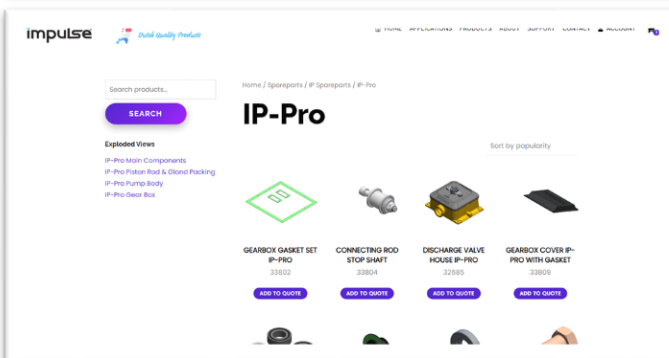
IP-SERIES – Website



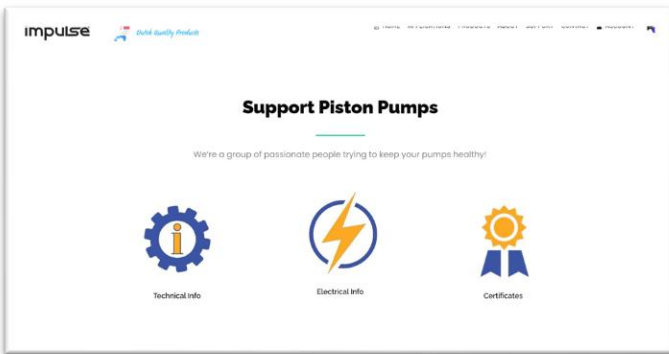
For enquiries, spare parts, and further support please refer to our user-friendly website.



The entire IP-Series range is visible under Products > IP-Series



All IP-Series spareparts can be found at Products > Spareparts > IP-Spareparts



Further support such as technical documentation, manuals, electrical diagrams, and certificates can be found under Support > IP-Series.

You can also contact us via e-mail or phone:

parts@impulsebv.com

www.impulsebv.com

+31 314 64 12 88

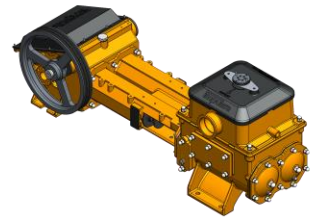


- Robust
- Easy to maintain
- Fuel Efficient

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Discover our entire range!

Our IP-Series Dewatering Pump is a reliable and efficient solution for lowering water tables during excavation and construction projects. Robust and reliable for demanding conditions.



DIESEL



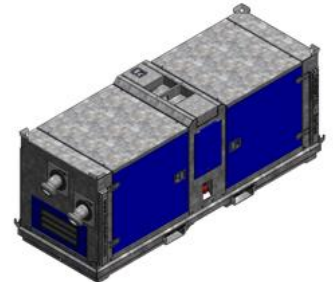
Brussel (IP-130)



AbuDhabi (IP-175)

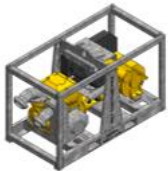


Yamuna (IP-175)



Oriental D+E (IP-175)

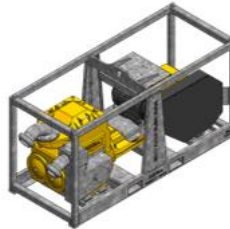
ELECTRIC



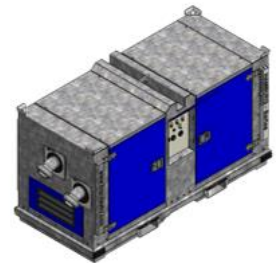
Mini Mumbai (IP-130)



Monaco (IP-130)



Mumbai (IP-175)

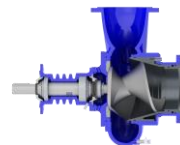


Hamburg (IP-175)

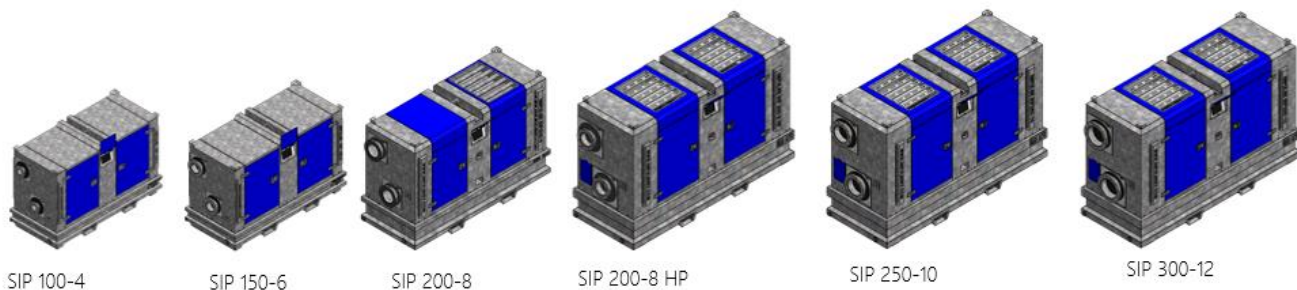
	Type	Dimensions (LxBxH) (m)	Weight (kg)	Engine	Fuel Tank (L) / Engine (kW)
Brussel	IP-130	1,7 x 1,0 x 1,3	1135	HATZ 1B30E (3,5kW @ 2300 UPM)	130 L
AbuDhabi	IP-175	2,0 x 0,8 x 1,1	1300	HATZ 1D81S (5,5 kW @ 1500 UPM)	100 L
Yamuna	IP-175	2,3 x 1,0 x 1,5	1950	HATZ 1D90E-Z (5,7 kW @ 1500 UPM)	225 L
Oriental	IP-175	2,8 x 1,0 x 1,2	2005	HATZ 1D90E-Z (5,7 kW @ 1500 UPM)	150 L
Mini Mumbai	IP-130	1,5 x 0,8 x 0,9	670	IMPULSE IE3 ELECTRIC ENGINE 400/690V 50-60Hz 3F	3,7 kW
Monaco	IP-130	1,7 x 1,0 x 1,0	1050	IMPULSE IE3 ELECTRIC ENGINE 400/690V 50-60Hz 3F	3,7 kW
Mumbai	IP-175	0,8 x 2,0 x 1,0	1215	IMPULSE IE3 ELECTRIC ENGINE 400/690V 50-60Hz 3F	7,5 kW
Hamburg	IP-175	2,3 x 1,0 x 1,2	1600	IMPULSE IE3 ELECTRIC ENGINE 400/690V 50-60Hz 3F	7,5 kW

Discover our entire range!

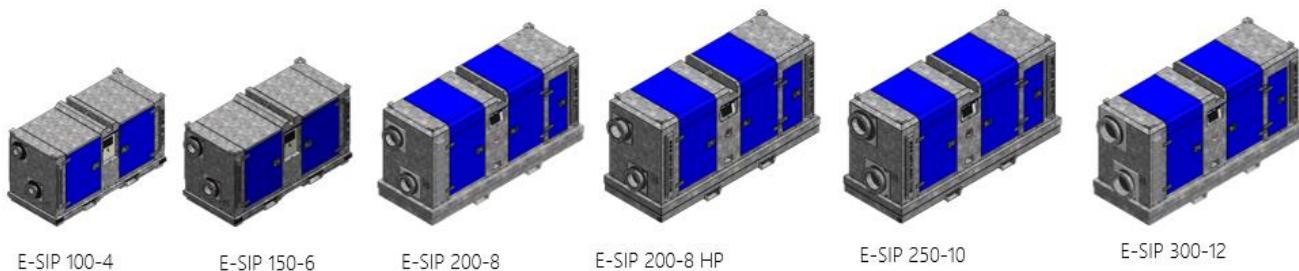
The SIP series are heavy-duty waste water pumps. These pumps can operate in harsh conditions and are not susceptible to clogging. SIP pumps are often used for redirecting sewage lines.



DIESEL



ELECTRIC



	Max. Capacity (m ³ / h)	Max. Head (m)	Max. Passage Diameter	Dimensions (LxBxH) (m)	Weight (kg)	Engine	Fuel Tank (L) Elektromotor (kW)
SIP 100-4	132	21,8	75 mm	2,3 x 1,0 x 1,5	1330	HATZ 1D90ZE	225 L
SIP 150-6	385	28,1	100 mm	2,3 x 1,0 x 1,5	1700	HATZ 3H50T	225 L
SIP 200-8	574	29,9	100 mm	2,8 x 1,1 x 1,8	2150	HATZ 4H50TIC	450 L
SIP 200-8 HP	680	42,3	115 mm	3,2 x 1,2 x 2,1	3250	JCB 448 STAGE V	500 L
SIP 250-10	985	45,2	120 mm	3,2 x 1,2 x 2,1	3400	JCB 448 STAGE V	3,7 kW
SIP 300-12	1235	51,1	120 mm	3,2 x 1,2 x 2,1	3615	JCB 448 STAGE V	3,7 kW
E-SIP 100-4	145	24,6	75 mm	2,3 x 1,0 x 1,2	1130	IE3 ELECTRIC ENGINE	7,5 kW
E-SIP 150-6	400	31,9	100 mm	2,3 x 1,0 x 1,2	1300	IE3 ELECTRIC ENGINE	18,5 kW
E-SIP 200-8	748	30,4	100 mm	3,1 x 1,1 x 1,7	1925	IE3 ELECTRIC ENGINE	37 kW
E-SIP 200-8 HP	710	47,8	115 mm	3,1 x 1,1 x 1,7	2500	IE3 ELECTRIC ENGINE	55 kW or 75 kW
E-SIP 250-10	985	45,9	120 mm	3,1 x 1,1 x 1,7	2500	IE3 ELECTRIC ENGINE	55 kW or 75 kW
E-SIP 300-12	1235	50,6	120 mm	3,1 x 1,1 x 1,7	2615	IE3 ELECTRIC ENGINE	75 kW

Exclusively supplied by:



Our pump technologies are designed for a better and greener planet

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