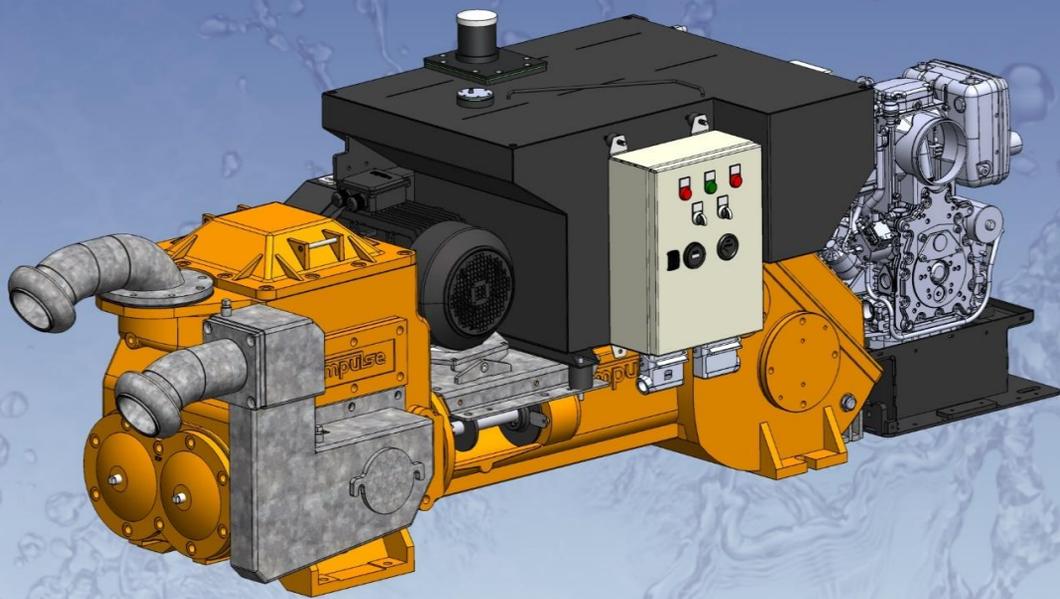




IP-175 ORIENTAL

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

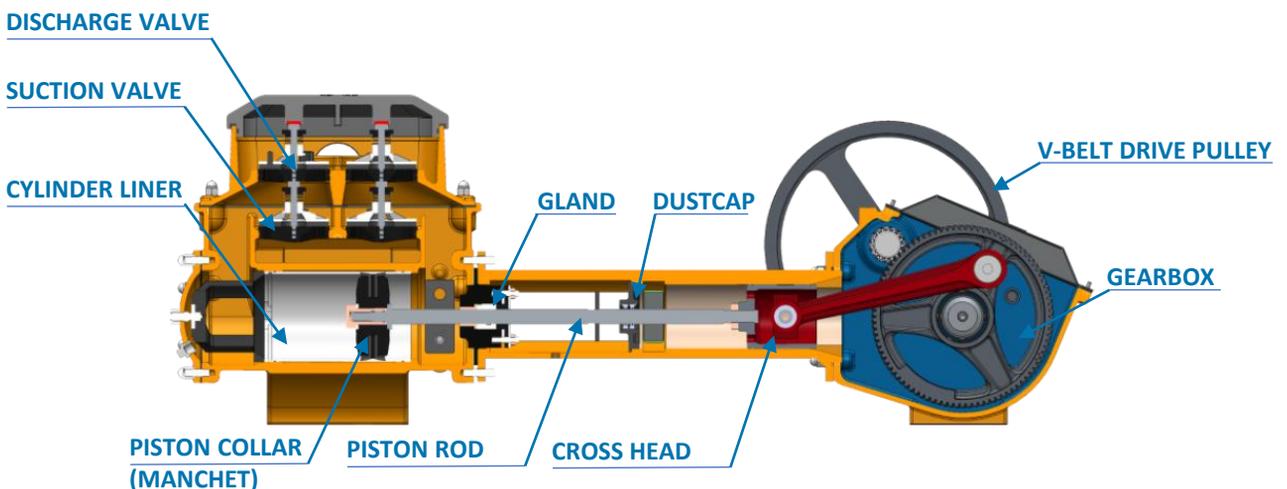
IP-175 series reciprocated double-acting dewatering pumps are designed and developed for both short- and long-term dewatering needs. Those pumps offer you continuous operation, ensuring a constant and uninterrupted dewatering process. These IP-series pumps are highly efficient, robust, reliable, and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

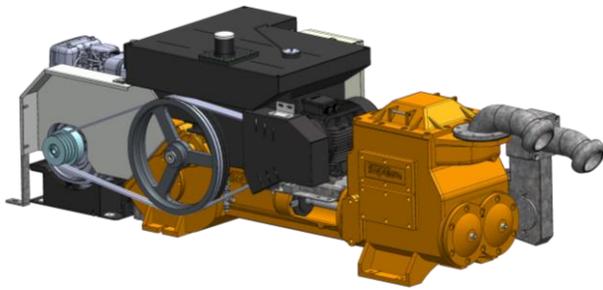
The IP-PRO Dewatering Pump represents the latest pinnacle inefficient mobile pump units designed for groundwater displacement tasks. Through the IP-Pro model Impulse demonstrates that even designs that have remained unchanged for decades can be enhanced across multiple aspects.



- Robust performance
- High Quality
- Fuel Efficient

Impossible to live without water

IP-175 – Specifications



Pump specifications:

Series.....	IP-175
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.

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

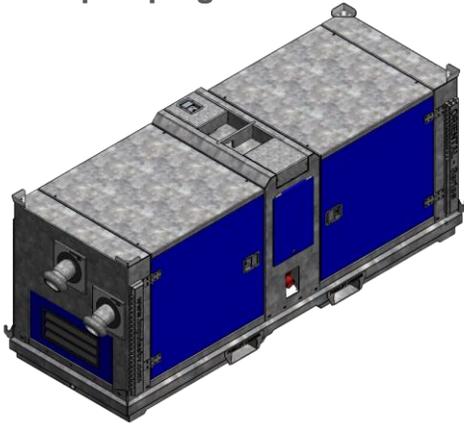
- Robust
- Easy to maintain
- Fuel Efficient

Impossible to live without water

ORIENTAL D+E – Specifications



The Oriental D+E model contains an IP-175 series pump driven by an electric motor and a diesel engine fitted with a backup controller. In the event of a power failure, the diesel engine will automatically start and continue pumping.



Pump specifications:

Type.....	Oriental Diesel + 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)
Diesel Engine.....	Hatz 1D90E-Z
Electric Engine.....	7.5 kW IE3 3-Phase
Canopy.....	Standard Size Canopy
Suction/Discharge.....	4-inch Quick Connection
Weight.....	2005 kg
Fuel consumption.....	0.9 L/h

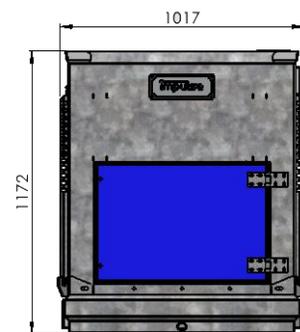
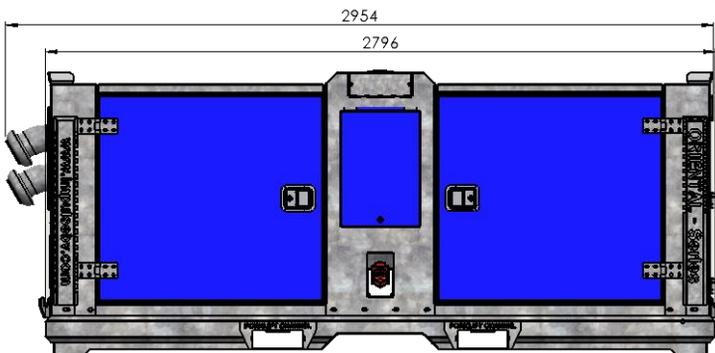
APPLICATION

Responding to the growing demand for electric-driven pumps with reliable power backup, we proudly present the Oriental D+E Configuration. This innovative solution has been crafted to meet the evolving needs of our customers. Drawing parallels with the efficiency of the Impulse Hamburg electric-driven dewatering pump, the Oriental D+E Configuration stands as a remarkable alternative.

Recognizing the common requirement for a backup power source, customers utilizing electric-driven pumps have often found themselves considering the installation of a separate generator set.

The Oriental D+E Configuration eliminates this concern by seamlessly integrating both power sources. In the event of a power failure, the diesel engine is automatically engaged, ensuring uninterrupted pumping operations.

This cutting-edge design shows our commitment to delivering smart solutions that combine convenience and performance. The Oriental D+E Configuration represents a pinnacle of innovation, underscoring Impulse's dedication to providing state-of-the-art developments that redefine industry standards. Join us in embracing the future of pump technology with the Oriental D+E Configuration — where reliability and ingenuity converge.



- Robust
- Easy to maintain
- Fuel Efficient

Impossible to live without water

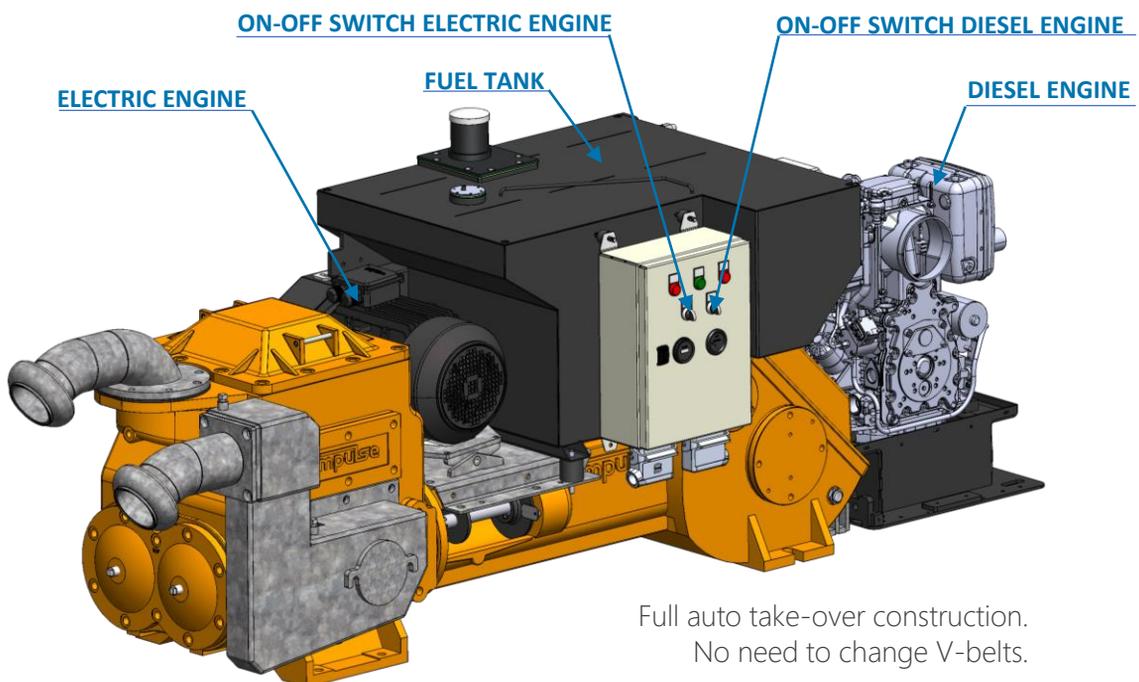
ORIENTAL D+E – Specifications



CONTROLLER

The Oriental D+E controller stands out as one of the rare Impulse controllers equipped with two switches, each serving a distinct purpose. One switch activates and deactivates the diesel engine, while the other controls the electric engine. Both engines can function autonomously. However, with both switches engaged, the unit will operate using electric power.

In the event of an electric power failure, the controller will automatically initiate the diesel engine. Once electric power is restored, the diesel engine will be deactivated, and the pump will seamlessly transition back to electric power.



Full auto take-over construction.
No need to change V-belts.

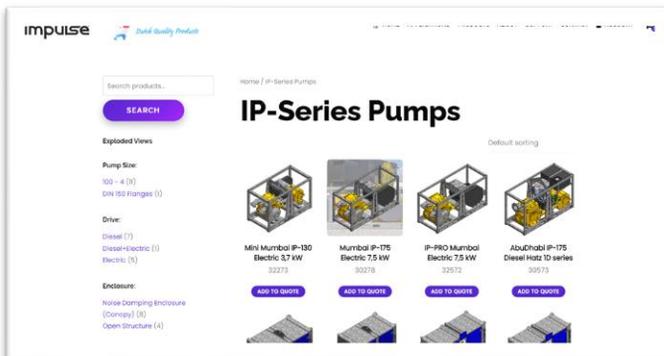
- Robust
- Easy to maintain
- Fuel Efficient

Impossible to live without water

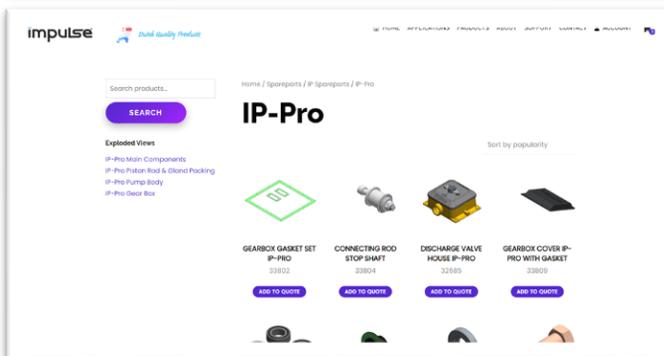
IP-SERIES – Website



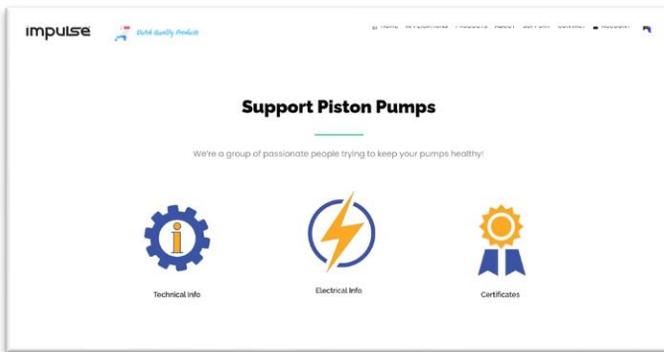
For enquiries, spare parts, and further support please refer to our user-friendly website.



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

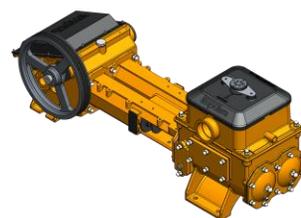


- Robust
- Easy to maintain
- Fuel Efficient

Impossible to live without water

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)

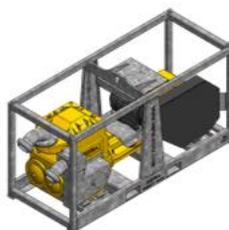
ELECTRIC



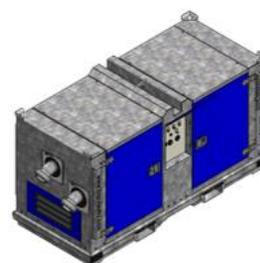
Mini Mumbai (IP-130)



Monaco (IP-130)



Mumbai (IP-175)



Hamburg (IP-175)

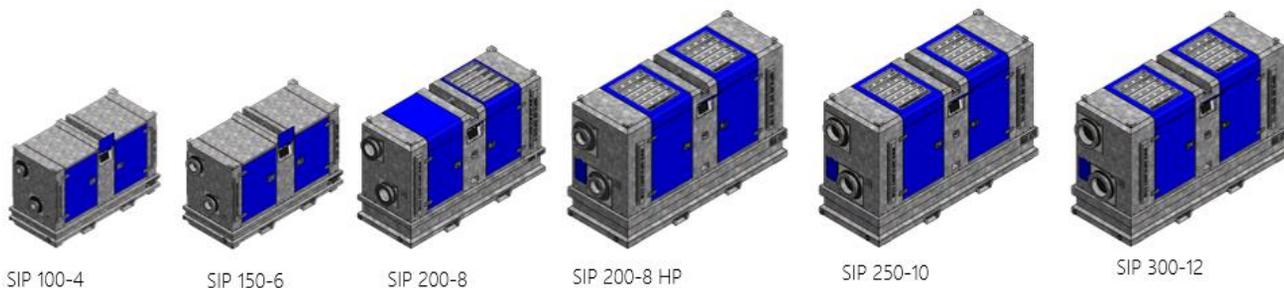
	Type	Dimensions (LxBxH) (m)	Weight (kg)	Engine	Fuel Tank (L) / Engine (kW)
Brussel	IP-130	1,7 x 1,0 x 1,3	1135	HATZ 1B30E (3,5kW @ 2300 UPM)	130 L
AbuDhabi	IP-175	2,0 x 0,8 x 1,1	1300	HATZ 1D81S (5,5 kW @ 1500 UPM)	100 L
Brussel	IP-175	2,3 x 1,0 x 1,5	1950	HATZ 1D90E-Z (5,7 kW @ 1500 UPM)	225 L
Oriental	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!

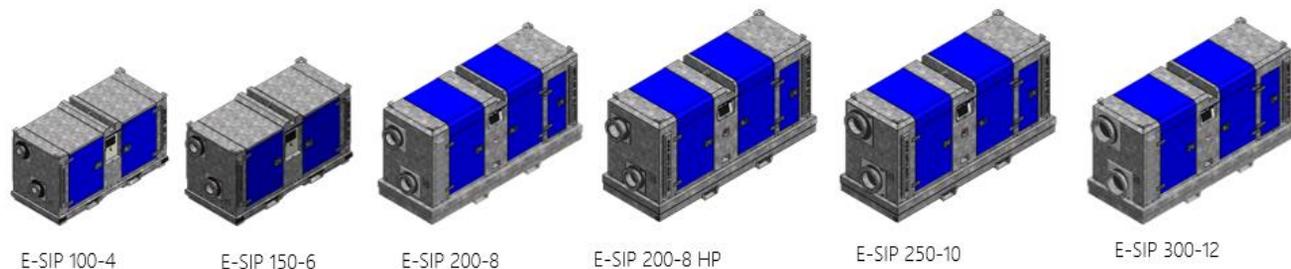
The SIP series are heavy-duty waste water pumps. These pumps can operate in harsh conditions and are not susceptible to clogging. SIP pumps are often used for redirecting sewage lines.



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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