Impulse "Yamuna" pump set

Type: **IP-145/IP-160/IP-175**
Hatz diesel driven piston pump

		IP-145	IP-160	IP-175
Cylinder diameter	:	145 mm	160 mm	175 mm
Measured power	:	7,5 kW	5,5 kW	7,5 kW
Max capacity	:	54 m3/h	65 m3/h	95 m3/h
Max head	:	65 mwc.	26 mwc.	20 mwc.
Max vacuum	:	-9,4 mtr.	-9,4 mtr.	-9,4 mtr.
Pump weight	:	825 kg.	825 kg.	825 kg.
Efficiency	:	92%	92%	92%

Specifications Yamuna series

L x W x H	:	225 x 95 x 140 cm
Weight	:	2134 kg.
Fuel tank	:	205 litres (10 to 14 days continous running)
Standaard accesoires	:	Forklift channels under base
	:	Central lifting eye
	:	Connections suction and discharge (system Cardan or Bauer on request)
	:	Oil retap pump for dieselengine and pump gearbox
	:	Safety starting handle, for manual start of dieselengine
	:	Galvanized protection bars on long side of canopy

Specifications Hatz 1 D81 Z diesel engine

Start	:	12V Electric start with hour counter
Cylinder	:	1 cylinder
Bore x stroke	:	100 x 85 mm
Power (according DIN ISO 3046)	:	5,5 kW
Cylinder capacity	:	667 cc
Compression-ratio	:	20.5
Fuel usage (on full duty)	:	1,09 liter/hour
Average fuel usage	:	0,82 liter/hour
Carter volume	:	4,8 liter motoroil 15W40
Weight engine	:	88,6 kg.

Aalborg 98 13 77 22
København 43 71 01 66
Kolding 76 33 60 60
www.ep.dk

Impossible to live without water

General

The Impulse IP reciprocated piston pump is developed for groundwater control and temporary groundwater abstraction and can be de: clean water pump.
This "clean water pump" can only be used in combination with well points with a maximal perforation of 0,7mm, or a horizontal drain pipe (French drain) which is connected to the suction of the pump.
The construction of the pump characterizes itself by a relatively low rpm (max 380 rpm of the big flywheel) combined with a high vacuum.
The construction is simple and solid and requires few to no maintenance.

The Impulse IP piston pump is standard driven by a Hatz Diesel engine or an electric ABB engine. Other engines are on request available.

De Yamuna serie

The main difference of the Yamuna canopy to the other fully closed canopies is a better accessibility of the head of the diesel engine.

This canopy also contains a centrally placed lifting eye which can be locked up behind a panel to avoid vandalism.
The doors ares high, so that the pump valves easily can be reached .

The canopy is completely made of fully galvanised plate material and placed on a fully sunk base with an underlying fuel tank.

The sub frame is placed on vibration dampers in the base tray on which the pump is mounted.
De diesel engine is placed on an engine base plate and fixed to the gear box of the pump.
The V-belt tension construction is equipped with push- and pull function. The exhaust and hot air drain damper are mounted to the upper panel of the canopy.

De diesel engine contains a 12V electric starter and a safety starting handle, for a manual start of the diesel engine. The engine configuration has a separate fuel filter with water separator, hour counter, mechanical oil pressure safeguard, enlarged carter and a hot air drain tunnel.
By stopping the diesel engine there will ring a buzzer as a reminder for switching the ignition off.

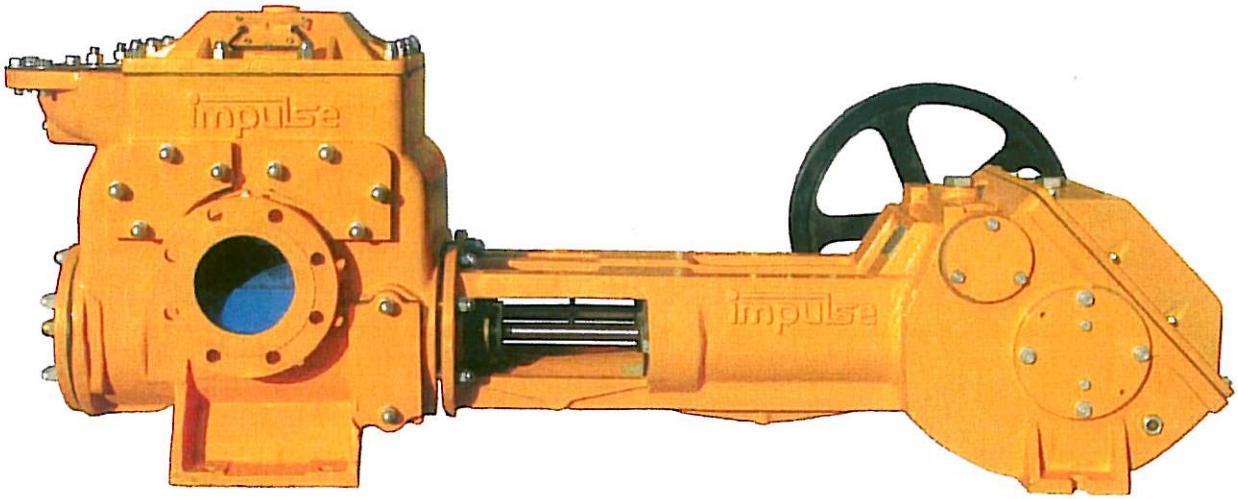
The canopy contains 5 articulated door panels of which 4 are fitted with stainless steel locks.
The door panel on the pulley side of the pump is locked by two M10 bolts. (according safety precautions)
The door panels contain sound muting isolation and are finished by perforated protection plates, for an optimal sound protection.

The entire canopy is coated with a zinc primer (inner and outer side) and the inner side is lacquered with a greyscale (RAL 7010).
The outer side can be coated in a single RAL colour.

The sound level on 10 metres of the pump set is 46 dB (while running).

Impulse "Mumbai" pump set

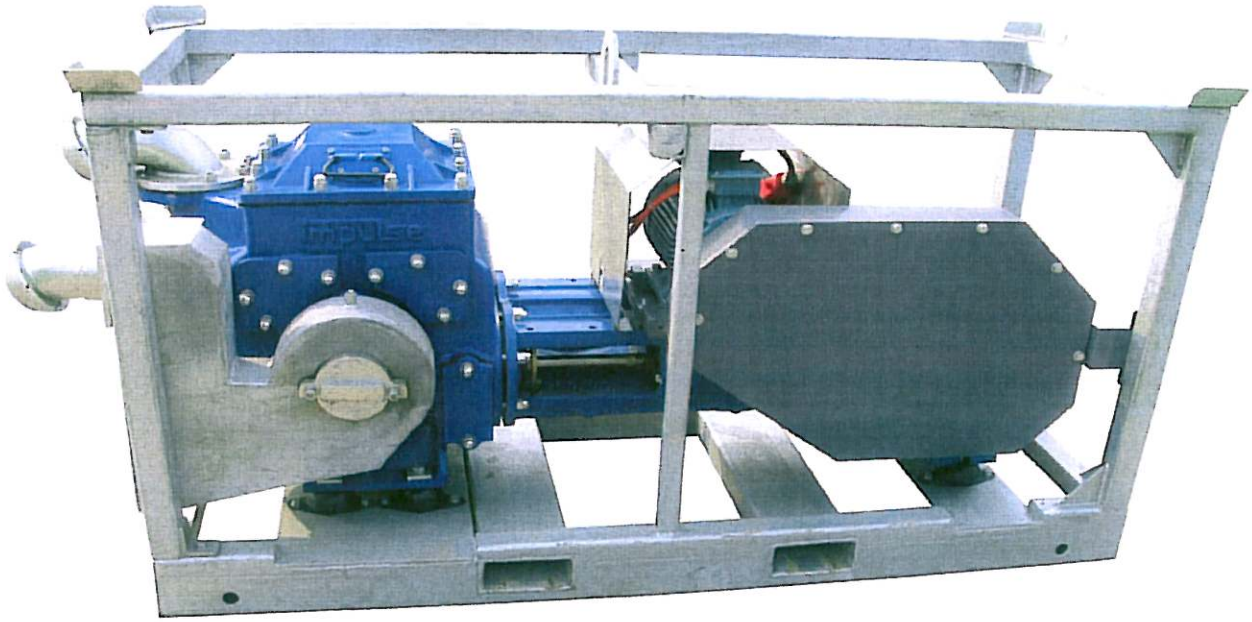
Type: **IP-145/IP-160/IP-175**
Electric driven piston pump



Specifications Mumbai series

L x W x H	:	200 x 80 x 125 cm
Weight	:	980 kg.
Engine	:	ABB Electric engine
Standard	:	Forklift channels under base
accessories	:	Central lifting eye
	:	Connections suction and discharge (system Cardan or Bauer on request)
	:	Oil retap pump for pump gearbox

		IP-145	IP-160	IP-175
Cylinder diameter	:	145 mm	160 mm	175 mm
Measured power	:	7,5 kW	5,5 kW	7,5 kW
Max capacity	:	54 m3/h	65 m3/h	95 m3/h
Max head	:	65 mwc.	26 mwc.	20 mwc.
Max vacuum	:	-9,4 mtr.	-9,4 mtr.	-9,4 mtr.
Pump weight	:	825 kg.	825 kg.	825 kg.
Efficiency	:	92%	92%	92%



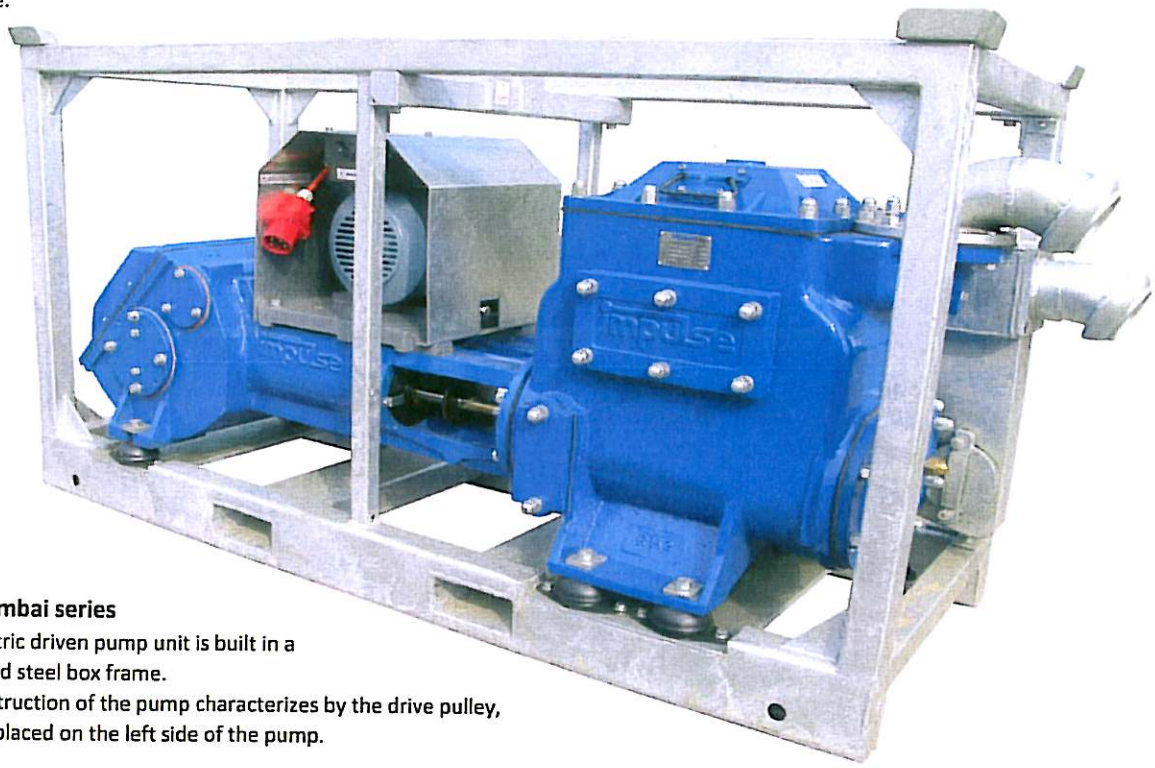
Aalborg 98 13 77 22
København 43 71 01 66
Kolding 76 33 60 60
www.ep.dk

Impossible to live without water

General

The Impulse IP reciprocated piston pump is developed for groundwater control and temporary groundwater abstraction and can be de clean water pump.
This "clean water pump" can only be used in combination with well points with a maximal perforation of 0,7mm, or a horizontal drain pipe (French drain) which is connected to the suction of the pump.
The construction of the pump characterizes itself by a relatively low rpm (max 380 rpm of the big flywheel) combined with a high vacuum.
The construction is simple and solid and requires few to no maintenance.

The Impulse IP piston pump is standard driven by a Hatz Diesel engine or an electric ABB engine. Other engines are on request available.



The Mumbai series

This electric driven pump unit is built in a galvanized steel box frame.
The construction of the pump characterizes by the drive pulley, which is placed on the left side of the pump.

Placing the pulley on the left side resulted in a compact structure of the unit. The total width of the pump set is 78 cm, so that it's possible to place 3 pump units next to each other on the loading area of a truck, with an extreme efficient way of transport as a result.

The electric engine is placed on a motor base plate on the drive side of the pump. The V-belt tension construction is equipped with a push- and pull function for the right alignment of the pulleys. The electric engine is protected by a galvanised plate steel rain cap. Under the rain cap is a manual star-, triangle switch installed, connected with a 5-pole CCE plug fitted with a phase change. The drive unit is fully shielded with a V-belt protection cap.

The Mumbai pump set can be supplied with an IP-175, IP 160 or IP-145 pump. The IP-175 and the IP-145 are driven by an ABB electric engine with a power of 7,5 kW. The IP-160 is driven by an ABB electric engine with 5,5 kW power.

The pump is supplied with a fully galvanised stone box and press corner which both contain 4" inner thread. The connections are available in the Cardan or Bauer system.

The galvanized frame has stack corners to put more pumps on each other. Storage room is easily saved. Moving the pump set is possible by the central lifting eye, or by a forklift using the integrated forklift channels under the base.

Impulse Flowmeter

Type: **Digi-Flow 80/Digi-Flow 100**
Ultrasonic flow meter

Specifications Impulse flow meter

	Digi-Flow 80	Digi-Flow 100
Max. working pressure	1MPa	1MPa
Flow-rate range	2.100 m3/h	4.200 m3/h
Accuracy	(+1,5% RS) 10.100 m3/h (+4% RS) 2,10 m3/h	(1,5% RS) 20.200 m3/h (+4% RS) 0.8 m3/h
Low-flow-cut-off	0,4 m3/h	0,8 m3/h
Pressure drop	nil	
Fluid temp.	0 - +50°C (avoid freezing)	
Measurable fluid	City water, factory water, pure water	
Batteries	Built-in lithium batteries	
Durability	5 years	
Weight	2,4 kg.	3,1 kg.
Accesories	Adjusting plate for installation positioning: 2 pieces Signal output cable 5 metres (optional)	

The Digi-Flow flow meters are available in two types:
Digi-Flow 80 with a free passage of 80 mm and the Digi-Flow 100 with a free passage of 100 mm.

Further specifications are the same for both Digi-Flow models.
The current flow and the total flow till that moment are shown on the digital display. This way it's possible to check the flow quick and easy at any time of the day.
The flow is measured very accurate and reliable by using ultrasonic waves.
A big advantage of using this method is that the medium will not touch the measurements sensors.
The entire measurement elapses without any obstruction.

The pressure loss is nil, so the pump will lose almost nothing of its capacity.

There is a possibility to cut in a company logo in the socket of the flow meter, as an extra accesorie. Some examples are show in the image next to this textbox.
It makes the flow meter unique and linked to your company.
The socket is made of galavanized plate material for a long lifetime durability and an optimal solidity.

The socket contains a connection on both sides. This connection can be delivered in the Cardan or Bauer system or a DN80 or DN100 flange.

The Impulse flow meters cope with all CE standards and are easy in use.

Impulse Pumps B.V.

Impossible to live without water

Aalborg 98 13 77 22
København 43 71 01 66
Kolding 76 33 60 60
www.ep.dk