

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	: 48 m ³ /h	60 m ³ /h	90 m ³ /h
Max head	: 65 mwc.	26 mwc.	22 mwc.
Max vacuum	: -9.5 mtr.	-9.5 mtr.	-9.5 mtr.
Pump weight	: 825 kg.	825 kg.	825 kg.
Efficiency	: 92%	92%	92%

Specifications Yamuna series

L x W x H	: 225 x 105 x 140 cm
Weight	: 1985 kg.
Fuel tank	: 230 litres (10 to 14 days continuous running)
Standaard	: Forklift channels under base
accessoires	: 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.



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 Yamuna series

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 are 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.

The 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.

The 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).