



# HP Offshore Flushing Rigs



- Harben® pump suitable for low viscosity water based oils i.e. Oceanic HW series, Castrol Brayco, Transaqua, MEG, water
- NAS 1638 Class 6 cleanliness standard
- DNV 2.7-1, ATEX and Norsok options
- Up to 415 bar & 55 l/min. 60°C max fluid temp
- Basic, PLC and HMI control options

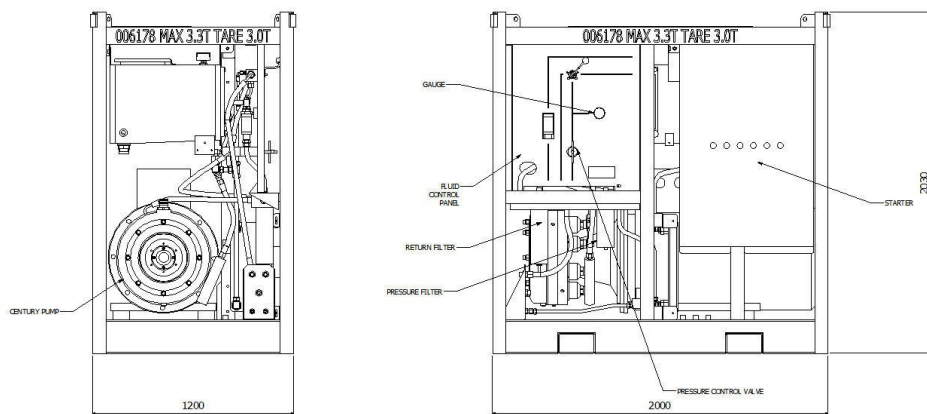
Model	HP Offshore Flushing Rigs
<b>Pressure and Flow</b>	The Harben® Offshore flushing rigs are available with a wide range of pressure and flow combinations. See reverse of brochure for details
<b>Pump</b> 	Harben® 'P' type radial piston diaphragm pump certified to ATEX Group II 2 G T4 for use in Zone 1 classified areas and below. Seal-less design suitable for pumping low lubricity fluids at high pressure
<b>Motor/Starter</b> 	Typically Atex II 2G EEx de IIB T4 for use in Zone 1 classified areas or EEx nA II T3 for use in Zone 2 classified areas. Motors are IP55 rated for ingress protection. Options available are 400v/3ph/50Hz, 440-460v/3ph/60Hz or multi voltage 400/690v 50Hz - 400v 60Hz - 440-480v 60Hz - 660-690v 60 Hz. The starter supplied will match the ATEX and IP rating of the motor. Norsok Z015 standard available
<b>Supply Tank</b>	300 litre supply tank manufactured from 316 stainless steel. Low level and high temperature fluid sensing
<b>Cooling</b>	Thermostatically controlled water cooled plate cooler to maintain flushing fluid at required temperature
<b>Frame</b>	DNV 2.7-1 in 316 stainless steel or mild steel shot blasted and powder coated. Lifting chains provided
<b>Filtration</b>	420 bar 3 micron high pressure filter, 40 bar 3 micron low pressure filter. Fitted with clogging indicators.
<b>Dimensions</b>	2000mm Long X 1200mm Wide X 2030mm High *
<b>Weight</b>	Dry weight: From 2700 kgs *

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**High Pressure  
Cleaner Solutions**



\* All weights and dimensions are approximate.

# Pump Outputs

The tables below show the performance in l/min that can be expected when operating on 50 Hz and 60 Hz electrical supplies with a 6 pole motor at maximum working pressure. The Harben® P type pump can be operated at up to 1300 rpm and when used with inverter drives (VFD) the flow will be proportionally higher than those shown.

## 50 Hz supply

	P Pump Model *	415 Bar				350 Bar				275 Bar			
		3x18	4x18	6x18	8x18	3x20	4x20	6x20	8x20	3x22	4x22	6x22	8x22
Motor Power kW / 6 pole / 50 Hz / 975 rpm *	11 kW	9.2	12.6			12.1				17.8			
	15 kW			18.9			17				23.3		
	18.5 kW							25.3					
	22 kW				26.4				33.9			36	
	30 kW												45.5

## 60 Hz supply

	P Pump Model *	415 Bar				350 Bar				275 Bar			
		3x18	4x18	6x18	8x18	3x20	4x20	6x20	8x20	3x22	4x22	6x22	8x22
Motor Power kW / 6 pole / 60 Hz / 1175 rpm **	11 kW	11.1	15.2			14.6							
	15 kW						21				21.5		
	18.5 kW			22.8								28	
	22 kW							30.5					
	30 kW				31.9				40.9			43.4	54.8

\* All performances are approximate.

\*\* Motor kW ratings are those stamped for 50Hz operation. 60Hz ratings will be proportionally higher

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