



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 700 bar & 86 l/min. 60°C max fluid temp
- Basic, PLC and HMI control options



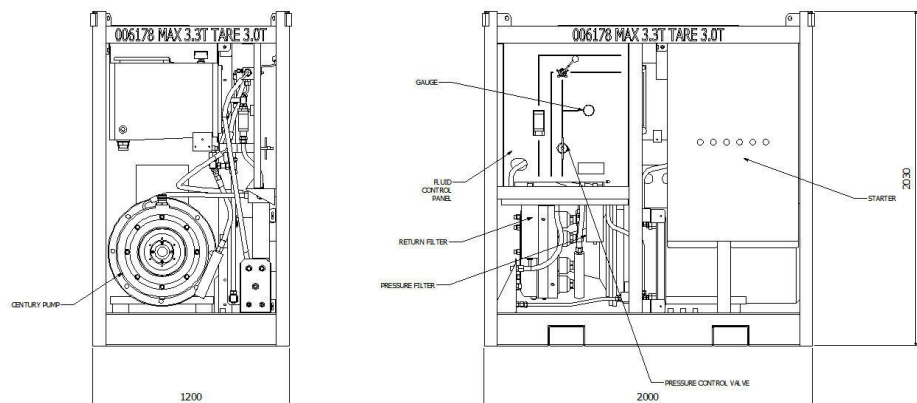
Model	HP Offshore Flushing Rigs
Pressure and Flow	The Harben® Offshore flushing rigs are available with a wide range of pressure and flow combinations. See reverse of brochure for details
Pump 	Harben® 'Century' type radial piston diaphragm pump certified to ATEX Group II 2 G T4 for use in Zone 1 classified areas and below. Seal-less design suitable for pumping low lubricity fluids at high pressure
Motor/Starter 	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
Supply Tank	300 litre supply tank manufactured from 316 stainless steel. Low level and high temperature fluid sensing
Cooling	Thermostatically controlled water cooled plate cooler to maintain flushing fluid at required temperature. Pump crankcase oil cooling available as an option.
Frame	DNV 2.7-1 in 316 stainless steel or mild steel shot blasted and powder coated. Lifting chains provided
Filtration	420 - 700 bar 3 micron high pressure filter, 40 bar 3 micron low pressure filter. Fitted with clogging indicators.
Dimensions	2000mm Long X 1200mm Wide X 2030mm High *
Weight	Dry weight: From 3000 kgs *

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**High Pressure
Cleaner Solutions**



* All weights and dimensions are approximate and diagrams are for general information only.

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® Century type pump can be operated at up to 1200 rpm and when used with inverter drives (VFD) it has a turndown ratio of 4:1.

50 Hz supply		700 Bar	600 Bar	500 Bar	550 Bar	450 Bar	350 Bar	400 Bar	300 Bar	200 Bar
Century Model *		4.22.5	4.22.5	4.22.5	4.25.0	4.25.0	4.25.0	4.27.5	4.27.5	4.27.5
Motor Power kW / 6 pole / 50 Hz / 980 rpm *	37 kW	29	33	36			54			72
	45 kW				46	50		55	65	

60 Hz supply		700 Bar	600 Bar	500 Bar	550 Bar	450 Bar	350 Bar	400 Bar	300 Bar	200 Bar
Century Model *		4.22.5	4.22.5	4.22.5	4.25.0	4.25.0	4.25.0	4.27.5	4.27.5	4.27.5
Motor Power kW / 6 pole / 60 Hz / 1180 rpm *	37 kW									
	45 kW	35	39	43			65			86
	55 kW				56	60		70	78	

* All performances are approximate.

** Motor kW ratings are those stamped for 50Hz operation. 60Hz ratings will be proportionally higher. Check motor ratings prior to purchase.

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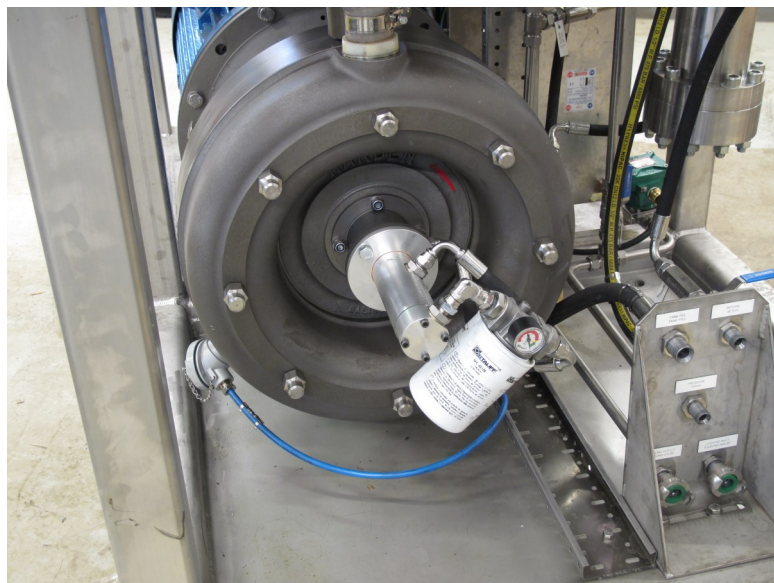


Photo shows Century with optional oil cooling, filtration and temperature sensing

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