

- 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 1 & 2 and Norsok options
- Up to 700 bar & 175 l/min. 60°C max fluid temp
- Basic, PLC and HMI control options



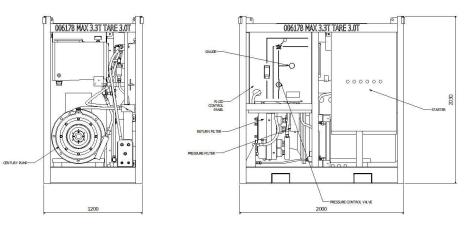
Model	HP Offshore Flushing Rigs						
Pressure and Flow	The Harben® Offshore flushing rigs are available with a wide range of pressure and flow combinations. See reverse of brochure for details						
Pump Ex	Harben® radial piston diaphragm pump certified to ATEX Group II 2 G T4 for use in Zone 1 classified are 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	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. Purr 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.



Harben Flushing Pump Options

The tables below show the performance in I/min that can be expected when operating on 50 Hz and 60 Hz electrical supplies with a 6 pole motor with the pump operating at listed pressures

If running on a VFD the Harben P type can be run at up to 1,300 rpm and the Century at 1,200 rpm. Both have a turndown ratio of 4:1

nave a turndown ratio of 4.1												
				700 Bar	600 Bar	500 Bar	550 Bar	450 Bar	350 Bar	400 Bar	300 Bar	200 Bar
		Century	itury	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	
		Century		700 Bar	600 Bar	500 Bar	550 Bar	450 Bar	350 Bar	400 Bar	300 Bar	200 Bar
		Cer	itury	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	
		Century	tury	700 Bar	600 Bar	500 Bar	550 Bar	450 Bar	350 Bar	400 Bar	300 Bar	200 Bar
		Cen	tur y	8.22.5	8.22.5	8.22.5	8.25.0	8.25.0	8.25.0	8.27.5	8.27.5	8.27.5
Motor Power kW / 6 pole / 50 Hz / 980 rpm		75	kW	58	64	69			110			150
		90	kW				94	101			140	
		110	kW							131		
				700 Bar	600 Bar	500 Bar	550 Bar	450 Bar	350 Bar	400 Bar	300 Bar	200 Bar
		Century		8.22.5	8.22.5	8.22.5	8.25.0	8.25.0	8.25.0	8.27.5	8.27.5	8.27.5
Motor Power kW / 6 pole / 50 Hz / 1180 rpm		75	kW			84						175
		00	1-14/	70	77				131		164	
		90 kW		10					131		104	
		110 kW					112 121			155		
РТу				415 B	ar		350 E	Bar		2	275 Bar	
		~	3x18	4x18	6x18 8x [.]	18 3x20	4x20	6x20 8x	20 3x2:	2 4x22	6x22	8x22
Motor Power kW / 6 pole / 50 Hz / 975 rpm	11 k\		9.2	12.6		12.1			17.8			
	15 k\ 18.5 k				18.9		17	25.3		23.3		
	22 k\				26	.4		33	9.9		36	
	30 k\											45.5
Р Тур)e		415 B			350 E				275 Bar	
Motor Power kW / 6 pole / 60 Hz / 1180 rpm		A.	3x18		6x18 8x1		4x20 (6x20 8x	20 3x2	2 4x22	6x22	8x22
	11 k\ 15 k\		11.1	15.2		14.6	21		21.5	5		
	18.5 k				22.8					28		
	22 k\	v						30.5				
	30 k\	N			31.	9		40	.9		43.4	54.8