

Triplex Pump Unit

0.8bpm @ 5kpsi

0.4bpm @ 10kpsi

Zone 2 & DNVGL2.7-1 / EN10855



WILITEC PTE LTD offers a wide range of pump unit zone2 ATEX and certified DNVGL2.7-1/EN10855 up to 10,000psi. Various configuration can be proposed depending of the location and the maximum power, from single lift package to two or three pieces unit . Diesel engine, hydraulic transmission, triplex pump and manifolding are designed to meet customers requirements.

The compact pump unit has been designed fully containerized. The frame incorporates forklift pockets and lifting padeyes.

A wide range of compact pump unit for hazardous area zone2.

Dimensions & Weight (model with options -pictures)

Dimension (L x W x H)	m	3.15 x 1.70 x 1.64	ft	10.33 x 5.57 x 5.38
Weight	kg	2500 (steel frame)	lbs	5500 (steel frame)



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Triplex Pump Specifications

The triplex pump is a precision designed and manufactured product, which if properly operated will give safe, reliable operation. Due to its positive displacement characteristics and high pressure capabilities, care must be taken in its application, installation and operation.



Mounted in a certified and fully enclosed structure, the pump unit is driven by a wireline/slickline powerpack, open or closed loop hydraulic system, and zone 2 rated (modular concept). Rig up will consist in hydraulic hoses connection only between pump skid and powerpack. The triplex pump is controlled thru an hydraulic control system, similar to the winch control. The pump is configured to provide the pressure and flowrate as per the customer's specifications. (plunger size, relief valve, safety valve, power engine rating).

Many options can be proposed :

Instrumentations recorder flowrate and pressure outlet fluid
IBC tank (chemical) and flush tank

Configuration installation between winch and powerpack with selector winch/powerpack
Hydraulic hose reel HP for the fluid outlet

Features	Applications	More
<ul style="list-style-type: none"> • Pressure to 38,000 psi* • Internal Helical Gear Reduction • Durable and Compact • Splash or Pressurized Lubrication Systems • Easy Field Maintenance • High Output Efficiency • Corrosion Resistant Hardware 	<ul style="list-style-type: none"> • Methanol Injection • Hydrostatic Testing • Chemical Injection • Downhole Equalization • Flushing • HPU Charging 	<ul style="list-style-type: none"> • Maximum Continuous Power 80 HP • Maximum Intermittent Power 100 HP • Internal Gear Ratio 3.95:1 • Maximum Continuous Input RPM 1430 RPM • Maximum Intermittent Input RPM 2200 RPM • 3.75" Stroke Length • Available with 4-bolt SAE "C" female splinned shaft for direct coupling of hydraulic motors

Plunger Dia.	Maximum Pressure PSI	Gallons Per Input Revolution	Volumes							
			2200 RPM		2000 RPM		1800 RPM		100 RPM	
			GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
7/16"	38,000*	.00185	4.07	140	3.70	127	3.33	114	.19	6.34
1/2"	30,000*	.0024	5.28	181	4.80	165	4.32	148	.24	8.22
5/8"	22,500*	.0038	8.36	287	7.60	261	6.84	235	.38	13.03
3/4"	15,000	.0054	11.88	407	10.80	370	9.72	333	.54	18.51
7/8"	10,000	.0074	16.28	588	14.80	507	13.32	457	.74	25.37
1"	8,000	.0096	21.12	724	19.20	658	17.28	593	.96	32.91
1-1/8"	6,300	.0122	26.84	920	24.40	836	21.96	753	1.22	42.00
1-1/4"	5,000	.0151	33.22	1,139	30.20	1,244	27.23	1,121	1.51	51.77



Triplex with hydraulic motor

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Triplex Pump Options



Triplex pump unit installed between the powerpack and the winch slickline (hydraulic hoses set x2).
 Application: scrapping jobs where mechanical scrapping and chemical cleaning are done in alternance.
 A selector switch installed on the triplex control panel allow the control of the winch (by-pass the triplex) or the control of the triplex (winch not powered).



IBC tank for chemical and flush tank water installed in the same skid with piping and 2 or 3 way valves.
 Pumping can be either from IBC tank, flush tank or direct from external with the right position of the valves.

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