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MPTP50 MPTP Specifications

Multiphase Pump	Type	Hydraulic drive low speed reciprocating multiphase pump			
	Capacity Control	Automatic by PLC, 100% turndown			
	Wiring	Class 1 Div 2 Hazardous location			
	Piping	SA-106B Threaded spools			
	Max Discharge Pressure	1100 psi std / 1500 optional		7600 / 10300 kPa	
	Max Design Discharge Temperature	400°F		200°C	
		Low pressure pump		**Very high pressure pump**	
	Max ΔP	170 psi	1172 kPa	350 psi	2413 kPa
	Max Continuous Liquid Flow	16730 bbl/d	2660 m^3/day	8550 bbl/d	1360 m^3/day

Hydraulic Power Pack	Driver	50 hp 3 phase TEFC electric motor
	Pump	Internal Gear
	Hydraulic Oil Filter	6 Micron
	Oil Capacity	69 gal / 260 L
	Cooling	Finned tube, fan-cooled
	Oil Temperature Control	Automatic: warm-up, air intake louver, cold-start protection
	Wiring	General purpose (remote from compressor)

Controls and Instrumentation	System Control	PLC with data logging
	Readout	PLC hosted wifi with web browser HMI
	Web Enabled Remote Monitoring	Cellular Network IOT system

Alarms and Shutdowns		**Alarm**	**Shutdown**
	Suction Pressure Low	✓	
	Discharge Pressure High	✓	
	Differential Pressure High	✓	
	Discharge Temperature High	✓	
	Oil Temperature Low	✓	
	Oil Temperature High	✓	✓
	Oil Leak	✓	✓
	Oil Level Low	✓	✓
	Oil Filter High ΔP	✓	
	Motor Overload		✓
	ESD		✓

Weight and Dimensions	Compressor on Concrete Slab	3200 lb / 1452 kg	172” x 25” / 437 cm x 64 cm
	Power Pack	2750 lb / 1247 kg	103” x 53” / 262 cm x 135 cm
	Inlet Connector	2” #600 Flange	1-1/2” Hose available
	Discharge Connector	2” #600 Flange	1-1/2” Hose available

Key Features

- No operator setup or adjustment required
- Minimum moving parts, minimum maintenance
- Self-start/auto restart after power outage
- Call system allows instant notification of shutdowns
- No process valves
- Liquid fractions from 0 - 100%
- 100% turndown
- Seals easily replaced on site; no additional lifting equipment required for servicing
- Piping for corrosive gas

Options

- High discharge pressure transmitter
- Hydraulic heat trace

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Multiphase Transfer Pump 50hp Projected Performance

SUCTION PRESSURE (psig *kPag*)	DISCHARGE PRESSURE (psig *kPag*)															
	100 *700*	**150** *1035*	**200** *1380*	**250** *1725*	**300** *2070*	**350** *2420*	**400** *2760*	**450** *3100*	**500** *3450*	**550** *3790*	**600** *4135*	**650** *4480*	**700** *4825*	**750** *5170*	**800** *5515*	**850** *5860*
10 *70*	**133** *3.8*	**123** *3.5*	**93** *2.6*	**70** *2.0*	**53** *1.5*	**48** *1.4*										
20 *140*	**198** *5.6*	**187** *5.3*	**144** *4.1*	**112** *3.2*	**86** *2.4*	**81** *2.3*										
30 *210*	**265** *7.5*	**254** *7.2*	**227** *6.4*	**179** *5.1*	**144** *4.1*	**113** *3.2*										
40 *280*	**331** *9.4*	**322** *9.1*	**290** *8.2*	**230** *6.5*	**183** *5.2*	**145** *4.1*										
50 *345*	**397** *11.2*	**389** *11.0*	**357** *10.1*	**279** *7.9*	**233** *6.6*	**178** *5.1*	**170** *4.8*									
75 *520*	**563** *15.9*	**554** *15.7*	**536** *15.1*	**420** *11.9*	**332** *9.4*	**263** *7.5*	**247** *7.0*									
100 *700*		**720** *20.3*	**711** *20.1*	**643** *18.2*	**510** *14.4*	**411** *11.6*	**334** *9.4*	**312** *8.8*								
150 *1035*			**1044** *29.5*	**1034** *29.2*	**931** *26.3*	**732** *20.7*	**595** *16.8*	**486** *13.7*	**450** *12.7*							
200 *1380*				**1367** *38.6*	**1358** *38.4*	**1218** *34.4*	**963** *27.2*	**786** *22.2*	**637** *18.0*	**596** *16.8*						
250 *1725*					**1710** *48.3*	**1700** *48.0*	**1497** *42.3*	**1187** *33.5*	**966** *27.3*	**799** *22.6*	**730** *20.6*					
300 *2070*						**2037** *57.5*	**2027** *57.3*	**1801** *50.9*	**1409** *39.8*	**1143** *32.3*	**947** *26.8*	**867** *24.5*				
350 *2420*							**2363** *66.8*	**2354** *66.5*	**2076** *58.6*	**1627** *46.0*	**1323** *37.4*	**1098** *31.0*	**1001** *28.3*			
400 *2760*								**2690** *76.0*	**2681** *75.7*	**2346** *66.3*	**1843** *52.1*	**1500** *42.4*	**1253** *35.4*	**1134** *32.0*		
450 *3100*									**3017** *85.2*	**3008** *85.0*	**2655** *75.0*	**2056** *58.1*	**1685** *47.6*	**1401** *39.6*	**1265** *35.7*	
500 *3450*										**3344** *94.5*	**3335** *94.2*	**2944** *83.2*	**2296** *64.9*	**1860** *52.6*	**1549** *43.8*	**1393** *39.4*

* Projected performance based on elevation 2500ft, gas density .66, temp 68ºF

Hyd. Pump Pressure Range	Maximum Flow		Maximum ΔP	
	m3/d	bpd	psi	kPa
Very High	1360	8,550	350	2413
High	1750	11,010	270	1861
Medium	2180	13,710	220	1517
Low	2660	16,730	170	1172

Increased liquid flow will reduce gas capacity – contact Compact Compression for a specific estimate based on expected operating conditions. Pumps can be replaced in the field to optimize for changes in operating conditions.