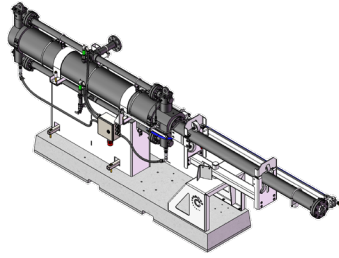


Multiphase Transfer Pump - 50 hp High Volume



COMPRESSOR				
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 / 10,300 kPa	
Max Design Discharge Temperature	250°F		120°C	
	Low pressure pump		Very high pressure pump	
Max ΔP	85 psi	586 kPa	175 psi	1206 kPa
Max Continuous Liquid Flow	33,390 bbl/d	5310 m ³ /day	16,980 bbl/d	2700 m ³ /day

HYDRAULIC POWER PACK	
Driver	50 hp 3 phase TEFC electric motor
Pump	Internal Gear
Hydraulic Oil Filter	6 Micron
Hydraulic Oil Capacity	69 gal / 260 L
Cooling	Finned tube, fan-cooled
Hydraulic 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

WEIGHTS AND DIMENSIONS		
Compressor on Concrete Slab	4550 lb / 2064 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	3" #600 Flange	
Discharge Connector	3" #600 Flange	

ALARMS AND SHUTDOWNS		
	Alarm	Shutdown
Suction Pressure Low	✓	
Discharge Pressure High	✓	
Differential Pressure High	✓	
Discharge Temperature High	✓	
Hydraulic Oil Temperature Low	✓	
Hydraulic Oil Temperature High	✓	✓
Hydraulic Oil Leak	✓	✓
Hydraulic Oil Level Low	✓	✓
Hydraulic Oil Filter High ΔP	✓	
Motor Overload		✓
ESD		✓

OPTIONS
<input checked="" type="checkbox"/> High discharge pressure transmitter
<input checked="" type="checkbox"/> Hydraulic heat trace

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sales@compactcompression.com
<https://www.compactcompression.com>



#8, 1820 - 30th Avenue NE, Calgary, AB T2E 7M5
 Telephone: (403) 219-3026 Fax: (403) 717-1759



Multiphase Transfer Pump - 50 hp High Volume

MPTP50 with 14" Cylinder								
DISCHARGE PRESSURE								
SUCTION PRESSURE	PSI	80	100	120	140	160	180	200
	kPa	552	689	827	965	1103	1241	1379
	10	262	206	164	155	123	117	
	69	7.5	5.9	4.7	4.4	3.5	3.4	
	15	328	299	240	196	156	149	
	103	9.4	8.5	6.8	5.6	4.4	4.3	
	20	396	362	290	236	190	180	
	138	11.3	10.3	8.3	6.8	5.4	5.1	
	25	471	431	344	280	262	214	202
172	13.5	12.3	9.8	8.0	7.5	6.1	5.8	
30	536	502	400	320	303	246	234	
207	15.3	14.4	11.4	9.2	8.6	7.0	6.7	
35	603	577	516	417	343	279	268	
241	17.2	16.5	14.7	11.9	9.8	8.0	7.7	
40	669	648	585	473	388	314	299	
276	19.1	18.5	16.7	13.5	11.1	9.0	8.5	

Hydraulic Pump Pressure Range	Maximum Flow		Maximum ΔP	
	m ³ /d	bpd	psi	kPa
Very High	2700	16,980	175	1206
High	3400	21,385	135	930
Medium	4240	26,660	110	760
Low	5310	33,390	85	586

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.

