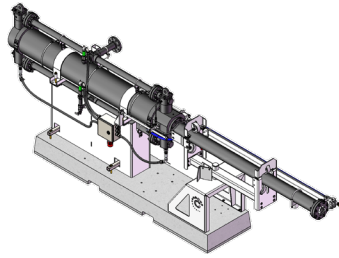


Multiphase Transfer Pump - 50 hp



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	170 psi	1172 kPa	350 psi / 2415 kPa
Max Continuous Liquid Flow	16,730 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
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	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	
Discharge Connector	2" #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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* Projected performance based on elevation 2500 ft, gas density .665, temperature 68°F - Flow rates in mscfd e³/m³/day

Multiphase Transfer Pump - 50 hp

MPTP50 with 10" Cylinder																
DISCHARGE PRESSURE																
PSI	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
kPa	700	1035	1380	1725	2070	2415	2760	3100	3450	3790	4135	4480	4825	5170	5515	5860
10	133	123	93	70	53	48										
70	3.8	3.5	2.6	2.0	1.5	1.4										
20	198	187	144	112	86	81										
140	5.6	5.3	4.1	3.2	2.4	2.3										
30	265	254	227	179	144	113										
210	7.5	7.2	6.4	5.1	4.1	3.2										
40	331	322	290	230	183	145										
280	9.4	9.1	8.2	6.5	5.2	4.1										
50	397	389	357	279	233	178	170									
345	11.2	11.0	10.1	7.9	6.6	5.1	4.8									
75	563	554	536	420	332	263	247									
520	15.9	15.7	15.1	11.9	9.4	7.5	7.0									
100		720	711	643	510	411	334	312								
700		20.3	20.1	18.2	14.4	11.6	9.4	8.8								
150			1044	1034	931	732	595	486	450							
1035			29.5	29.2	26.3	20.7	16.8	13.7	12.7							
200				1367	1358	1218	963	786	637	596						
1380				38.6	38.4	34.4	27.2	22.2	180	16.8						
250					1710	1700	1497	1187	966	799	730					
1725					48.3	48.0	42.3	33.5	27.3	22.6	20.6					
300						2037	2027	1801	1409	1143	947	867				
2070						57.5	57.3	50.9	39.8	32.3	26.8	24.5				
350							2363	2354	2076	1627	1323	1098	1001			
2415							66.8	66.5	58.6	46.0	37.4	31.0	28.3			
400								2690	2681	2346	1843	1500	1253	1134		
2760								76.0	75.7	66.3	52.1	42.4	35.4	32.0		
450									3017	3008	2655	2056	1685	1401	1265	
3100									85.2	85.0	75.0	58.1	47.6	39.6	35.7	
500										3344	3335	2944	2296	1860	1549	1393
3450										94.5	94.2	83.2	64.9	52.6	43.8	39.4

Hydraulic Pump Pressure Range	Maximum Flow		Maximum ΔP	
	m ³ /d	bpd	psi	kPa
Very High	1360	8,550	350	2415
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.

