

HCG50

CHC1050 Specifications

Compressor	Type	Hydraulic drive low speed reciprocating compressor			
	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	
		1022 Cylinder		1028 Cylinder	
	Max ΔP	225 psi	1550 kPa	380 psi	2620 kPa
	Max Geometric Displacement	77 mcf/d	2180 m ³ /day	48 mcf/d	1350 m ³ /day
2 Phase Max Continuous Water Flow	411 bbl/d	65 m ³ /day	425 bbl/d	67 m ³ /day	

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

Controls and Instrumentation	System Control	PLC with data logging			
	Readout	Multifunction LCD display			
	Web Enabled Remote Monitoring	Satellite callout for operating conditions, Alarms, Shutdowns			

Alarms and Shutdowns	Alarm	Shutdown
	Suction Pressure Low	
	Discharge Pressure High	
	Differential Pressure High	
	Discharge Temperature High	
	Oil Temperature Low	
	Oil Temperature High	Oil temperature high
	Oil Leak	Oil leak
	Oil Level Low	Oil level low
	Oil Filter High ΔP	
	Motor overload	
	ESD	

Weight and Dimensions	Compressor on Concrete Slab	2600 lb / 1180 kg	96" x 24" / 244 cm x 61 cm
	Power Pack	2600 lb / 1180 kg	96" x 53" / 244 cm x 135 cm
	Inlet Connector	2" NPT	1-1/2" Hose available
	Discharge Connector	2" NPT	1-1/2" Hose available

Key Features	Options
<ul style="list-style-type: none"> No operator setup or adjustment required Minimum moving parts, minimum maintenance Self start/auto restart after power outage Satellite call system allows instant notification of shutdowns No welding or cutting required for pump jack installation No process valves No extra equipment required for process liquid handling (scrubber, blowcase, pump, float switch) 	<ul style="list-style-type: none"> High Discharge Pressure transmitter Piping for Corrosive Process Gas Hydraulic heat trace

CHC1050 with HC1022 Compressor

DISCHARGE PRESSURE Max ΔP: 225 psi / 1550 kPa														
PSI kPa	75	100	125	150	175	200	225	250	275	300	325	350		
	520	700	860	1035	1205	1380	1550	1725	1900	2070	2240	2420		
SUCTION	5	35	100	95	91	87	83	79	75					
			2.8	2.7	2.6	2.5	2.4	2.3	2.1					
	10	70	130	125	121	117	112	108	104					
			3.7	3.6	3.5	3.3	3.2	3.1	3.0					
	15	105	160	156	151	147	147	138	134					
			4.6	4.5	4.3	4.2	4.2	3.9	3.8					
	20	140	191	186	181	177	172	168	164					
			5.5	5.3	5.2	5.1	4.9	4.8	4.7					
	30	210	252	247	242	237	233	228	223	219				
			7.2	7.1	6.9	6.8	6.6	6.5	6.4	6.3				
	40	275	314	308	303	298	293	288	284	279				
			9.0	8.8	8.7	8.5	8.4	8.2	8.1	8.0				
	50	345	376	370	364	359	354	349	344	339	334			
			10.7	10.6	10.4	10.3	10.1	10.0	9.8	9.7	9.5			
	75	520		525	519	513	507	501	496	491	485	480		
				15.0	14.8	14.6	14.5	14.3	14.1	14.0	13.9	13.7		
100	700			674	667	661	655	649	643	637	632	626		
				19.3	19.1	18.9	18.7	18.5	18.4	18.2	18.1	17.9		
125	860				823	816	809	802	790	790	748	778	773	
					23.5	23.3	23.1	22.9	22.6	22.6	21.4	22.2	22.1	
150	1035					972	964	957	950	944	937	931	925	
						27.8	27.6	27.3	27.2	27.0	26.8	26.6	26.4	
175	1205						1120	1113	1105	1098	1091	1084	1078	
							32.0	31.8	31.6	31.4	31.2	31.0	30.8	
200	1380							1269	1261	1254	1246	1239	1232	
								36.3	36.0	35.8	35.6	35.4	35.2	

Projected Performance based on 2500 ft, gas density .665, temp 68°F – Flow Rates in mscfd e³m³/day

CHC1050 with HC1028 Compressor

DISCHARGE PRESSURE Max ΔP: 380 psi / 2620 kPa														
PSI kPa	250	275	300	325	350	375	400	425	450	475	500	525		
	1725	1900	2070	2240	2420	2585	2760	2930	3100	3275	3450	3620		
SUCTION	5	35	41	39	36	34	32	30						
			1.2	1.1	1.0	1.0	0.9	0.9						
	10	70	58	56	53	52	49	47						
			1.7	1.6	1.5	1.5	1.4	1.3						
	15	105	75	73	71	68	66	64						
			2.2	2.1	2.0	2.0	1.9	1.8						
	20	140	93	90	88	86	83	81	78					
			2.7	2.6	2.5	2.4	2.4	2.3	2.2					
	30	210	128	125	123	120	118	115	113					
			3.7	3.6	3.5	3.4	3.4	3.3	3.2					
	40	275	163	161	158	155	157	150	148					
			4.7	4.6	4.5	4.4	4.5	4.3	4.2					
	50	345	199	196	193	191	188	185	183	180				
			5.7	5.6	5.5	5.4	5.4	5.3	5.2	5.1				
	75	520	288	285	282	279	276	273	271	268	265			
			8.2	8.1	8.0	8.0	7.9	7.8	7.7	7.7	7.6			
100	700	378	374	371	368	365	362	359	356	353	350			
		10.8	10.7	10.6	10.5	10.4	10.3	10.3	10.2	10.1	10.0			
125	860	468	464	460	458	454	451	448	445	442	439	436		
		13.4	13.3	13.2	13.1	13.0	12.9	12.8	12.7	12.6	12.5	12.5		
150	1035	558	555	551	547	544	541	538	534	531	528	524	521	
		16.0	15.8	15.7	15.6	15.5	15.5	15.4	15.3	15.2	15.1	15.0	14.9	
175	1205	649	645	641	638	634	630	627	624	620	617	613	610	
		18.5	18.4	18.3	18.2	18.1	18.0	17.9	17.8	17.7	17.6	17.5	17.4	
200	1380	740	736	732	728	724	721	717	713	710	706	703	699	
		21.2	21.0	20.9	20.8	20.7	20.6	20.5	20.4	20.3	20.2	20.1	20.0	

Projected Performance based on 2500 ft, gas density .665, temp 68°F – Flow Rates in mscfd e³m³/day