

HCG15G CHC0615G Gas Drive Specifications

Compressor	Type	Hydraulic drive low speed reciprocating compressor			
	Capacity Control	Automatic by PLC, 100% turndown			
	Piping	SA-106B Threaded spools			
	Max Discharge Pressure	1100 psi std / 1500 optional		7600 / 10300 kPa	
	Max Design Discharge Temperature	400°F		200°C	
		613 Cylinder		616 Cylinder	
	Max ΔP	225 psi	1550 kPa	350 psi	2410 kPa
	Max Geometric Displacement	34 mcf/d	969 m ³ /day	23 mcf/d	644 m ³ /day
2 Phase Max Continuous Water Flow	n/a	n/a	201 bbl/d	32 m ³ /day	

Hydraulic Power Pack	Driver	4-cylinder natural gas drive engine			
		Usable power	30 hp @ 1800 rpm		
		Ignition	Electronic		
		Starter	Electric		
		Oil Conditioning	Slipstream 10 micron filter		
		Oil Capacity	9.8 gal / 37 L		
		Silencer	Mac – whisper quiet		
		Governor	Woodward electronic		
		Hydraulic Pump	External gear pump		
		Hydraulic Oil Filter	6 Micron		
		Hydraulic Oil Capacity	34 gal / 129 L		
		Hydraulic Cooling	Offline cooling loop, bar and plate cooler, fan-cooled		
		Hydraulic Oil Temperature Control	Automatic: warm-up, cold-start protection		
	Wiring	General purpose (remote from compressor)			

Controls and Instrumentation	System Control	PLC with data logging			
	Readout	Multifunction LCD display			
	Engine Analog Gauges	Oil pressure, coolant temperature, fuel pressure			
	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	
	Hydraulic Oil Temperature Low	
	Hydraulic Oil Temperature High	Hydraulic oil temperature high
	Hydraulic Oil Leak	Hydraulic oil leak
	Hydraulic Oil Level Low	Hydraulic oil level low
	Engine Oil Level Low	
		Engine coolant temperature high
		Engine oil pressure low
	ESD	

Weight and Dimensions	Compressor on Pumpjack Direct Mount	612 lb / 280 kg	98" x 20" / 248 cm x 51 cm
	Compressor on Concrete Slab	2084 lb / 945 kg	98" x 24" / 248 cm x 61 cm
	Power Pack	2270 lb / 1030 kg	87" x 56" / 220 cm x 141 cm
	Inlet Connector	1" NPT	Hose available
	Discharge Connector	1" NPT	Hose available

Key Features	Options
<ul style="list-style-type: none"> Minimal operator setup or adjustment required Minimum moving parts, minimum maintenance 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 (CCI must approve application) Compressor mounting: Pumpjack direct mount or freestanding on concrete slab Glycol heat trace

CHC0615G Gas Drive with HC613 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	46 1.3	45 1.3	44 1.3	43 1.2	42 1.2	41 1.2	40 1.1					
	10 70	59 1.7	58 1.7	57 1.6	56 1.6	55 1.6	54 1.5	52 1.5					
	15 105	72 2.1	71 2.0	70 2.0	69 2.0	68 1.9	66 1.9	65 1.9					
	20 140	86 2.4	84 2.4	83 2.4	82 2.3	81 2.3	79 2.3	78 2.2					
	30 210	112 3.2	111 3.2	109 3.1	108 3.1	107 3.0	105 3.0	104 3.0	103 2.9				
	40 275	139 4.0	137 3.9	135 3.9	134 3.8	133 3.8	131 3.7	130 3.7	129 3.7				
	50 345	165 4.7	164 4.7	162 4.6	160 4.6	159 4.5	157 4.5	156 4.4	154 4.4	153 4.4			
	75 520		230 6.6	228 6.5	226 6.5	224 6.4	223 6.4	221 6.3	219 6.3	218 6.2	216 6.2		
	100 700			295 8.4	293 8.4	291 8.3	289 8.2	286 8.2	284 8.1	282 8.1	281 8.0	279 8.0	
	125 860				361 10.3	358 10.2	355 10.1	353 10.1	350 10.0	348 9.9	346 9.9	344 9.8	342 9.8
	150 1035					426 12.2	422 12.1	419 12.0	417 11.9	414 11.8	411 11.8	409 11.7	407 11.6
	175 1205						491 14.0	488 13.9	484 13.8	481 13.7	478 13.6	475 13.6	472 13.5
	200 1380							556 15.9	552 15.8	548 15.7	545 15.6	541 15.5	538 15.4

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

CHC0615G Gas Drive with HC616 Compressor

DISCHARGE PRESSURE Max ΔP: 350 psi / 2410 kPa														
PSI kPa	200	225	250	275	300	325	350	375	400	425	450	475	500	
	1380	1550	1720	1900	2070	2240	2410	2590	2760	2930	3100	3280	3450	
SUCTION	5 30	26 0.7	25 0.7	24 0.7	24 0.7	23 0.7	23 0.6	22 0.6						
	10 70	34 1.0	33 1.0	33 0.9	32 0.9	31 0.9	31 0.9	30 0.9						
	15 100	42 1.2	42 1.2	41 1.2	40 1.1	39 1.1	39 1.1	38 1.1						
	20 140	50 1.4	50 1.4	49 1.4	48 1.4	48 1.4	47 1.3	46 1.3						
	30 210	67 1.9	66 1.9	66 1.9	65 1.8	64 1.8	63 1.8	63 1.8	62 1.8					
	40 280	84 2.4	83 2.4	82 2.3	81 2.3	80 2.3	80 2.3	79 2.3	78 2.2					
	50 340	100 2.9	99 2.8	99 2.8	98 2.8	97 2.8	96 2.7	95 2.7	95 2.7	94 2.7				
	75 520	142 4.1	141 4.0	140 4.0	139 4.0	138 3.9	137 3.9	136 3.9	135 3.9	134 3.8	134 3.8			
	100 690	184 5.2	183 5.2	182 5.2	180 5.2	179 5.1	178 5.1	177 5.3	176 5.0	175 5.0	175 5.0	174 5.0		
	125 860	226 6.5	225 6.4	223 6.4	222 6.3	221 6.3	220 6.3	219 6.2	218 6.2	217 6.2	215 6.2	214 6.1	213 6.1	
	150 1030	268 7.7	267 7.6	265 7.6	264 7.5	263 7.5	262 7.5	260 7.4	259 7.4	258 7.4	257 7.3	256 7.3	254 7.3	253 7.2
	175 1210	311 8.9	310 8.8	308 8.8	306 8.8	305 8.7	303 8.7	302 8.6	301 8.66	299 8.6	298 8.5	297 8.5	295 8.4	294 8.4
200 1380		352 10.1	351 10.1	349 10.0	347 9.9	346 9.9	344 9.8	343 9.8	341 9.7	340 9.7	338 9.7	337 9.6	335 9.6	

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