

HCG15

CHC0615 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	
		613 Cylinder		616 Cylinder	
	Max ΔP	225 psi	1550 kPa	350 psi	2410 kPa
	Max Geometric Displacement	28 mcf/d	787 m ³ /day	18 mcf/d	523 m ³ /day
2 Phase Max Continuous Water Flow	n/a	n/a	164 bbl/d	26 m ³ /day	

Hydraulic Power Pack	Driver	15 hp 3 phase TEFC electric motor			
	Pump	Internal gear pump			
	Hydraulic Oil Filter	6 Micron			
	Oil Capacity	34 gal/129 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 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	1285 lb / 580 kg	78" x 50" / 198 cm x 126 cm	
	Inlet Connector	1" NPT	Hose available	
	Discharge Connector	1" NPT	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 Power pack sound baffles Piping for corrosive process gas Compressor mounting: Pumpjack direct mount or freestanding on concrete slab Hydraulic heat trace

CHC0615 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	37 1.1	36 1.1	35 1.0	34 1.0	33 0.9	32 0.9	32 0.9					
	10 70	47 1.4	46 1.4	46 1.3	45 1.3	44 1.3	43 1.2	42 1.2					
	15 105	58 1.7	57 1.7	56 1.7	55 1.6	54 1.6	53 1.5	52 1.5					
	20 140	69 2.1	68 2.0	67 2.0	66 1.9	65 1.9	64 1.9	63 1.8					
	30 210	90 2.7	89 2.7	88 2.6	87 2.6	86 2.5	85 2.5	84 2.5	83 2.4				
	40 275	112 3.4	110 3.3	109 3.3	108 3.2	107 3.2	106 3.1	105 3.1	104 3.0				
	50 345	133 4.0	132 4.0	131 3.9	129 3.9	128 3.8	127 3.8	126 3.7	125 3.7	124 3.6			
	75 520		186 5.3	184 5.3	183 5.2	181 5.2	180 5.2	179 5.1	177 5.1	176 5.0	175 4.9		
	100 700			238 6.8	237 6.8	235 6.7	233 6.7	232 6.6	230 6.6	229 6.5	227 6.4		
	125 860				291 8.3	289 8.3	287 8.2	285 8.2	283 8.1	282 8.0	280 7.9		
	150 1035					344 9.8	341 9.8	339 9.7	337 9.6	335 9.6	333 9.5	331 9.4	
	175 1205						396 11.3	394 11.3	391 11.2	389 11.1	387 11.1	385 11.0	383 10.9
	200 1380							449 12.8	446 12.7	443 12.6	441 12.6	439 12.5	436 12.4

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

CHC0615 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	20 0.6	19 0.5	19 0.5	18 0.5	17 0.5	16 0.5	16 0.5						
	10 70	27 0.8	26 0.7	26 0.7	25 0.7	24 0.7	23 0.7	23 0.7						
	15 100	34 1.0	33 0.9	32 0.9	32 0.9	31 0.9	30 0.9	29 0.8						
	20 140	41 1.2	40 1.1	39 1.1	39 1.1	38 1.1	37 1.1	36 1.0						
	30 210	55 1.6	54 1.5	54 1.5	53 1.5	52 1.5	51 1.5	50 1.4	49 1.4					
	40 280	70 2.0	69 2.0	68 1.9	67 1.9	66 1.9	65 1.9	64 1.8	63 1.8					
	50 340	84 2.4	83 2.4	82 2.3	81 2.3	80 2.3	79 2.3	78 2.2	77 2.2	76 2.2				
	75 520	114 3.3	114 3.3	113 3.2	112 3.2	111 3.2	111 3.2	110 3.1	109 3.1	109 3.1	108 3.1			
	100 690	148 4.2	147 4.2	146 4.2	146 4.2	145 4.1	144 4.1	143 4.1	143 4.1	142 4.1	141 4.0	141 4.0		
	125 860	182 5.2	181 5.2	180 5.1	179 5.1	179 5.1	178 5.1	177 5.1	176 5.0	175 5.0	174 5.0	174 5.0	173 4.9	
	150 1030	217 6.2	215 6.1	214 6.1	213 6.1	212 6.1	211 6.0	210 6.0	210 6.0	209 6.0	208 5.9	207 5.9	206 5.9	205 5.9
	175 1210	251 7.2	250 7.1	249 7.1	247 7.1	246 7.0	245 7.0	244 7.0	243 7.0	242 6.9	241 6.9	240 6.9	239 6.8	239 6.8
200 1380		284 8.1	283 8.1	282 8.1	281 8.0	279 8.0	278 8.0	277 7.9	276 7.9	275 7.9	274 7.8	273 7.8	272 7.8	

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