



Hydraulic Casing Gas Compressor – 15 hp

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 / 10,300 kPa		
Max Design Discharge Temperature	400°F		200°C	
	613 Cylinder		616 Cylinder	
Max ΔP	225 psi	1550 kPa	350 psi	2415 kPa
Max Geometric Displacement	28 mcf/d	787 m ³ /day	18 mcf/d	523 m ³ /day

HYDRAULIC POWER PACK

Driver	15 hp 3 phase TEFC electric motor 1800 rpm
Pump	Internal gear pump
Hydraulic Oil Filter	6 Micron
Hydraulic Oil Capacity	34 gal / 129 L
Hydraulic Oil Temperature Control	Automatic: warm-up valve, air intake louver, cold-start protection
Cooling	Finned Tube, fan-cooled
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

WEIGHTS 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	1" x 48" SS Flex Hose Standard
Discharge Connector	1" NPT	1" x 48" SS Flex Hose Standard

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

- 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
- High volume hydraulic pump for low ΔP (613 cylinder only)

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HCG15 with 613 Cylinder														
DISCHARGE PRESSURE Max ΔP: 225 psi / 1550 kPa														
SUCTION PRESSURE	PSI	75	100	125	150	175	200	225	250	275	300	325	350	
	kPa	520	700	860	1035	1205	1380	1550	1725	1900	2070	2240	2415	
	5	37	36	35	34	33	32	32						
	35	1.1	1.1	1.0	1.0	0.9	0.9	0.9						
	10	47	46	46	45	44	43	42						
	70	1.4	1.4	1.3	1.3	1.3	1.2	1.2						
	15	58	57	56	55	54	53	52						
	105	1.7	1.7	1.7	1.6	1.6	1.5	1.5						
	20	69	68	67	66	65	64	63						
	140	2.1	2.0	2.0	1.9	1.9	1.9	1.8						
	30	90	89	88	87	86	85	84	83					
	210	2.7	2.7	2.6	2.6	2.5	2.5	2.5	2.4					
	40	112	110	109	108	107	106	105	104					
	275	3.4	3.3	3.3	3.2	3.2	3.1	3.1	3.0					
	50	133	132	131	129	128	127	126	125	124				
	345	4.0	4.0	3.9	3.9	3.8	3.8	3.7	3.7	3.6				
75		186	184	183	181	180	179	177	176	175				
520		5.3	5.3	5.2	5.2	5.2	5.1	5.1	5.0	4.9				
100			238	237	235	233	232	230	229	227				
700			6.8	6.8	6.7	6.7	6.6	6.6	6.5	6.4				
125				291	289	287	285	283	282	280				
860				8.3	8.3	8.2	8.2	8.1	8.0	7.9				
150					344	341	339	337	335	333	331			
1035					9.8	9.8	9.7	9.6	9.6	9.5	9.4			
175						396	394	391	389	387	385	383		
1205						11.3	11.3	11.2	11.1	11.1	11.0	10.9		
200							449	446	443	441	439	436		
1380							12.8	12.7	12.6	12.6	12.5	12.4		

HCG15 with 616 Cylinder															
DISCHARGE PRESSURE Max ΔP: 350 psi / 2415 kPa															
SUCTION PRESSURE	PSI	200	225	250	275	300	325	350	375	400	425	450	475	500	
	kPa	1380	1550	1720	1900	2070	2240	2415	2590	2760	2930	3100	3280	3450	
	5	20	19	19	18	17	16	16							
	30	0.6	0.5	0.5	0.5	0.5	0.5	0.5							
	10	27	26	26	25	24	23	23							
	70	0.8	0.7	0.7	0.7	0.7	0.7	0.7							
	15	34	33	32	32	31	30	29							
	100	1.0	0.9	0.9	0.9	0.9	0.9	0.8							
	20	41	40	39	39	38	37	36							
	140	1.2	1.1	1.1	1.1	1.1	1.1	1.0							
	30	55	54	54	53	52	51	50	49						
	210	1.6	1.5	1.5	1.5	1.5	1.5	1.4	1.4						
	40	70	69	68	67	66	65	64	63						
	280	2.0	2.0	1.9	1.9	1.9	1.9	1.8	1.8						
	50	84	83	82	81	80	79	78	77	76					
	340	2.4	2.4	2.3	2.3	2.3	2.3	2.2	2.2	2.2					
75	114	114	113	112	111	111	110	109	109	108					
520	3.3	3.3	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.1					
100	148	147	146	146	145	144	143	143	142	141	141				
690	4.2	4.2	4.2	4.2	4.1	4.1	4.1	4.1	4.1	4.0	4.0				
125	182	181	180	179	179	178	177	176	175	174	174	173			
860	5.2	5.2	5.1	5.1	5.1	5.1	5.1	5.0	5.0	5.0	5.0	4.9			
150	217	215	214	213	212	211	210	210	209	208	207	206	205		
1030	6.2	6.1	6.1	6.1	6.1	6.0	6.0	6.0	6.0	5.9	5.9	5.9	5.9		
175	251	250	249	247	246	245	244	243	242	241	240	239	239		
1210	7.2	7.1	7.1	7.1	7.0	7.0	7.0	6.9	6.9	6.9	6.9	6.8	6.8		
200		284	283	282	281	279	278	277	276	275	274	273	272		
1380		8.1	8.1	8.1	8.0	8.0	7.9	7.9	7.9	7.9	7.8	7.8	7.8		

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