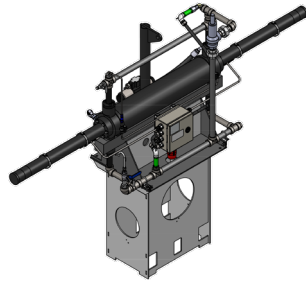


Hydraulic Casing Gas Compressor – 15 hp Gas Drive



KEY FEATURES

- Capable of handling liquids and slugs
- Maximum ΔP up to 2410 kPa (350 psi)
- 100% turndown capability
- Small footprint
- Engine drive for sites with no electric power
- NHSP (No Hassle Service Plan) & SkyView

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	2410 kPa
Max Geometric Displacement	34 mcf/d	969 m ³ /day	23 mcf/d	644 m ³ /day

HYDRAULIC POWER PACK

Driver	4-cylinder natural gas drive engine			
Usable power	30 hp @ 1800 rpm			
Fuel Consumption	317 scf/hr / 215 m ³ /d			
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

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	2270 lb / 1030 kg	87" x 56" / 220 cm x 141 cm
Inlet Connector	1" NPT	Hose available
Discharge Connector	1" NPT	Hose available

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	✓	
Engine Oil Level Low	✓	
Engine Coolant Temperature High		✓
Engine Oil Pressure Low		✓
ESD		✓

OPTIONS

- High discharge pressure transmitter
- Piping for corrosive process gas
- Compressor mounting: Pumpjack direct mount or freestanding on concrete slab
- Glycol heat trace

APPLICATIONS

- Casing Gas Compression (Sweet & Sour Service)
- Tank Vapour Recovery
- Flaring / Venting Reduction
- Gas Recovery From Treeters/Separators
- Pressure Boosting
- Pigging / Pig Launching
- SAGD / CSS Production Optimization
- Compressor Seal Vapour Recovery
- Frac Flowback Gas Recovery

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* Projected performance based on elevation 2500 ft, gas density .665, temperature 68°F - Flow rates in mscfd e³m³/day

Hydraulic Casing Gas Compressor – 15 hp Gas Drive

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	2420	
	5	46	45	44	43	42	41	40						
	35	1.3	1.3	1.3	1.2	1.2	1.2	1.1						
	10	59	58	57	56	55	54	52						
	70	1.7	1.7	1.6	1.6	1.6	1.5	1.5						
	15	72	71	70	69	68	66	65						
	105	2.1	2.0	2.0	2.0	1.9	1.9	1.9						
	20	86	84	83	82	81	79	78						
	140	2.4	2.4	2.4	2.3	2.3	2.3	2.2						
	30	112	111	109	108	107	105	104	103					
	210	3.2	3.2	3.1	3.1	3.0	3.0	3.0	2.9					
	40	139	137	135	134	133	131	130	129					
	275	4.0	3.9	3.9	3.8	3.8	3.7	3.7	3.7					
	50	165	164	162	160	159	157	156	154	153				
	345	4.7	4.7	4.6	4.6	4.5	4.5	4.4	4.4	4.4				
75		230	228	226	224	223	221	219	218	216				
520		6.6	6.5	6.5	6.4	6.4	6.3	6.3	6.2	6.2				
100			295	293	291	289	286	284	282	281	279			
700			8.4	8.4	8.3	8.2	8.2	8.1	8.1	8.0	8.0			
125				361	358	355	353	350	348	346	344	342		
860				10.3	10.2	10.1	10.1	10.0	9.9	9.9	9.8	9.8		
150					426	422	419	417	414	411	409	407		
1035					12.2	12.1	12	11.9	11.8	11.8	11.7	11.6		
175						491	488	484	481	478	475	472		
1205						14.0	13.9	13.8	13.7	13.6	13.6	13.5		
200							556	552	548	545	541	538		
1380							15.9	15.8	15.7	15.6	15.5	15.4		

HCG15 with 616 Cylinder															
DISCHARGE PRESSURE Max ΔP: 350 psi / 2410 kPa															
SUCTION PRESSURE	PSI	200	225	250	275	300	325	350	375	400	425	450	475	500	
	kPa	1380	1550	1720	1900	2070	2240	2410	2590	2760	2930	3100	3280	3450	
	5	26	25	24	24	23	23	22							
	30	0.7	0.7	0.7	0.7	0.7	0.6	0.6							
	10	34	33	33	32	31	31	30							
	70	1.0	1.0	0.9	0.9	0.9	0.9	0.9							
	15	42	42	41	40	39	39	38							
	100	1.2	1.2	1.2	1.1	1.1	1.1	1.1							
	20	50	50	49	48	48	47	46							
	140	1.4	1.4	1.4	1.4	1.4	1.3	1.3							
	30	67	66	66	65	64	63	63	62						
	210	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8						
	40	84	83	82	81	80	80	79	78						
	280	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.2						
	50	100	99	99	98	97	96	95	95	94					
	340	2.9	2.8	2.8	2.8	2.8	2.7	2.7	2.7	2.7					
75	142	141	140	139	138	137	136	135	134	134					
520	4.1	4.0	4.0	4.0	3.9	3.9	3.9	3.9	3.8	3.8					
100	184	183	182	180	179	178	177	176	175	175	174				
690	5.2	5.2	5.2	5.2	5.1	5.1	5.3	5.0	5.0	5.0	5.0				
125	226	225	223	222	221	220	219	218	217	215	214	213			
860	6.5	6.4	6.4	6.3	6.3	6.3	6.2	6.2	6.2	6.2	6.2	6.1	6.1		
150	268	267	265	264	263	262	260	259	258	257	256	254	253		
1030	7.7	7.6	7.6	7.5	7.5	7.5	7.4	7.4	7.4	7.3	7.3	7.3	7.2		
175	311	310	308	306	305	303	302	301	299	298	297	295	294		
1210	8.9	8.8	8.8	8.8	8.7	8.7	8.6	8.66	8.6	8.5	8.5	8.4	8.4		
200		352	351	349	347	346	344	343	341	340	338	337	335		
1380		10.1	10.1	10.0	9.9	9.9	9.8	9.8	9.7	9.7	9.7	9.6	9.6		

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