

# Hydraulic Vapor Recovery Compressor HVR75-1020

## Specifications & Performance

HVR75 - 1020

TECHNICAL SPECIFICATIONS



COMPRESSOR		
Type	Hydraulic drive low speed reciprocating compressor	
Capacity Control	Automatic by PLC, 100% turndown	
Wiring	Class 1 Division 2 Hazardous Location	
Piping	SA-106B Threaded Spools	
Compression Cylinder	<b>2 x 1020 Cylinders</b>	
Max Discharge Pressure	1100 psi std / 1500 optional	7584 kPa / 10342 optional
Max ΔP	190 psi	1310 kPa
Max Design Discharge Temperature	400°F	204°C
Max Geometric Displacement	224 mcf/d	6343 m <sup>3</sup> /day
Max Continuous Liquid Flow: 2-Phase Operation	396 bbl/d	63 m <sup>3</sup> /day

HYDRAULIC POWER PACK	
Driver	100 hp 3 phase TEFC electric motor
Pump	98.3 cc Double vane pump
Hydraulic Oil Filter	7 Micron
Oil Capacity	90 gal / 340 L
Cooling	Electric fan, bar and plate type cooler
Oil Temperature Control	Automatic warm-up, air intake louver, cold-start protection
Wiring	General Purpose (remote from compressor) Class 1, Division 2 (if no power pack enclosure option)

CONTROLS AND INSTRUMENTATION	
System Control	PLC with data logging
Readout	Multifunction LCD Display
SkyView Remote Monitoring	Cellular callout for operating conditions, alarms, shutdowns

WEIGHTS AND DIMENSIONS		
Weight	7200 lbs	3266 kg
Dimensions (L x W x H)	236" x 68" x 66"	599 cm x 147 cm x 142 cm
Inlet Connector	3" #150 Flange	
Discharge Connector	2" #150 Flange (Optional #300 Flange)	

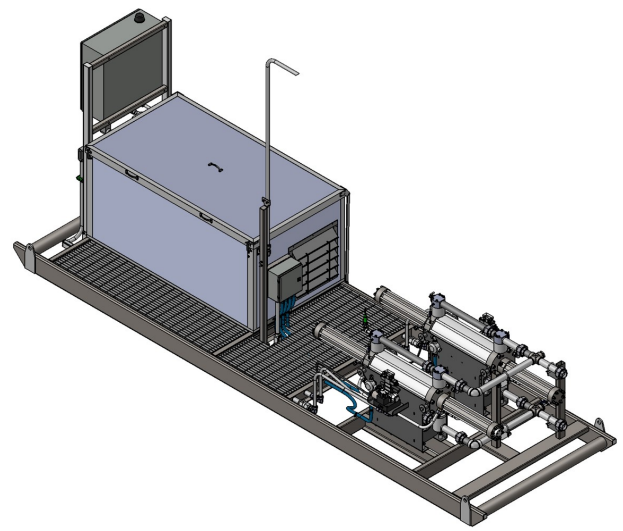
ALARMS AND SHUTDOWNS		
	Alarm	Shutdown
Suction Pressure Low	✓	
Discharge Pressure High	✓	
Differential Pressure High	✓	
Discharge Temperature High	✓	
Hydraulic Oil Temperature Low	✓	
Hydraulic Oil Temperature High	✓	✓
Hydraulic Oil Leak	✓	✓
Hydraulic Oil Usage	✓	✓
Hydraulic Oil Level Low	✓	✓
Hydraulic Oil Filter High ΔP	✓	
Motor Overload		✓
ESD		✓

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\*Projected performance at sea level, 14.7 psi, gas density 0.665, temp 68°F

## Key Features

- ☑ Dual compression cylinders for maximum capacity
- ☑ Mono-skid design to optimize footprint and mobility
- ☑ Processes liquids in the compressor
- ☑ No operator setup or adjustment required
- ☑ Minimum moving parts for low maintenance
- ☑ Self-start / auto restart after power outage
- ☑ SkyView cellular call system for instant notification
- ☑ Best-in-class reliability (>99.7% uptime)



### HVR75-1020 (98.3cc Hydraulic Pump) Performance

		Discharge Pressure (Max ΔP 190 psi)							
psi		25	50	75	100	125	150	175	200
KPa		172	345	517	689	862	1034	1207	1379
Suction Pressure	0	205	191	178	166	154	143	132	
	0	5.8	5.4	5.0	4.7	4.4	4.0	3.7	
	5	282	268	254	241	229	217	205	194
	34	8.0	7.6	7.2	6.8	6.5	6.1	5.8	5.5
	10	360	345	331	317	304	292	280	268
	69	10.2	9.8	9.4	9.0	8.6	8.3	7.9	7.6
	15	438	422	408	394	380	367	355	342
	103	12.4	11.9	11.6	11.2	10.8	10.4	10.1	9.7
	20	517	500	485	470	457	443	430	417
	138	14.6	14.2	13.7	13.3	12.9	12.5	12.2	11.8
	25		578	562	547	533	519	506	493
	172		16.4	15.9	15.5	15.1	14.7	14.3	14.0
	30		656	640	624	610	596	582	568
207		18.6	18.1	17.7	17.3	16.9	16.5	16.1	
35		734	717	702	687	672	658	644	
241		20.8	20.3	19.9	19.5	19.0	18.6	18.2	
40		813	795	779	764	749	734	720	
276		23.0	22.5	22.1	21.6	21.2	20.8	20.4	
45		891	873	857	841	826	811	796	
310		25.2	24.7	24.3	23.8	23.4	23.0	22.5	
50			952	934	918	903	887	873	
345			27.0	26.4	26.0	25.6	25.1	24.7	

Flow rates based on 100% gas fillage. Liquid volumes reduce gas throughput as a % of swept volume.

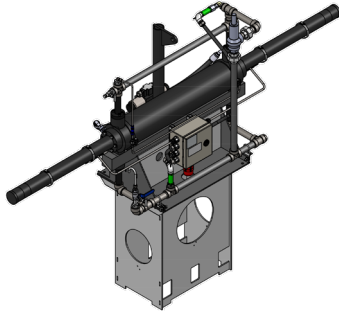
Flow rates in mscf/d (e<sup>3</sup>m<sup>3</sup>/day). 15% correction factor applied to flow rates.

**\*Our team will be pleased to assist you with ideal HVR sizing and configuration for your operation.**



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## 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	
	<b>613 Cylinder</b>		<b>616 Cylinder</b>	
Max ΔP	225 psi	1550 kPa	350 psi	2415 kPa
Max Geometric Displacement	28 mcf/d	787 m <sup>3</sup> /day	18 mcf/d	523 m <sup>3</sup> /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
<input checked="" type="checkbox"/> High discharge pressure transmitter
<input checked="" type="checkbox"/> Power pack sound baffles
<input checked="" type="checkbox"/> Piping for corrosive process gas
<input checked="" type="checkbox"/> Compressor mounting: Pumpjack direct mount or freestanding on concrete slab
<input checked="" type="checkbox"/> Hydraulic heat trace
<input checked="" type="checkbox"/> High volume hydraulic pump for low ΔP (613 cylinder only)

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## Hydraulic Casing Gas Compressor – 15 hp

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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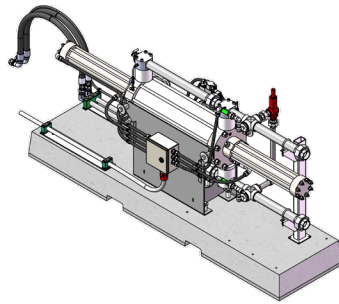
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# Hydraulic Casing Gas Compressor – 50 hp



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	
	<b>1022 Cylinder</b>		<b>1028 Cylinder</b>	
Max ΔP	225 psi	1550 kPa	380 psi	2620 kPa
Max Geometric Displacement	77 mcf/d	2180 m <sup>3</sup> /day	48 mcf/d	1350 m <sup>3</sup> /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

WEIGHTS 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	1½" x 72" SS Flex Hose Standard
Discharge Connector	2" NPT	1½" x 72" 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
<input checked="" type="checkbox"/> High discharge pressure transmitter
<input checked="" type="checkbox"/> Piping for corrosive process gas
<input checked="" type="checkbox"/> Hydraulic heat trace

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# HCG50

# PROJECTED PERFORMANCE

\* Projected performance based on elevation 2500 ft, gas density .665, temperature 68°F - Flow rates in mscfd e<sup>3</sup>m<sup>3</sup>/day

## Hydraulic Casing Gas Compressor – 50 hp

HCG50 with 1022 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	100	95	91	87	83	79	75						
	35	2.8	2.7	2.6	2.5	2.4	2.3	2.1						
	10	130	125	121	117	112	108	104						
	70	3.7	3.6	3.5	3.3	3.2	3.1	3.0						
	15	160	156	151	147	147	138	134						
	105	4.6	4.5	4.3	4.2	4.2	3.9	3.8						
	20	191	186	181	177	172	168	164						
	140	5.5	5.3	5.2	5.1	4.9	4.8	4.7						
	30	252	247	242	237	233	228	223	219					
	210	7.2	7.1	6.9	6.8	6.6	6.5	6.4	6.3					
	40	314	308	303	298	293	288	284	279					
	275	9.0	8.8	8.7	8.5	8.4	8.2	8.1	8.0					
	50	376	370	364	359	354	349	344	339	334				
	345	10.7	10.6	10.4	10.3	10.1	10.0	9.8	9.7	9.5				
75		525	519	513	507	501	496	491	485	480				
520		15.0	14.8	14.6	14.5	14.3	14.1	14.0	13.9	13.7				
100			674	667	661	655	649	643	637	632	626			
700			19.3	19.1	18.9	18.7	18.5	18.4	18.2	18.1	17.9			
125				823	816	809	802	793	786	778	771	764		
860				23.5	23.3	23.1	22.9	22.7	22.4	22.2	22.0	21.8	21.8	
150					972	964	957	950	944	937	931	925		
1035					27.8	27.6	27.3	27.2	27.0	26.8	26.6	26.4	26.4	
175							1120	1113	1105	1098	1091	1084	1078	
1205							32.0	31.8	31.6	31.4	31.2	31.0	30.8	
200								1269	1261	1254	1246	1239	1232	
1380								36.3	36.0	35.8	35.6	35.4	35.2	

HCG50 with 1028 Cylinder														
DISCHARGE PRESSURE Max ΔP: 350 psi / 2410 kPa														
SUCTION PRESSURE	PSI	250	275	300	325	350	375	400	425	450	475	500	525	
	kPa	1725	1900	2070	2240	2420	2585	2760	2930	3100	3275	3450	3620	
	5	41	39	36	34	32	30							
	30	1.2	1.1	1.0	1.0	0.9	0.9							
	10	58	56	53	52	49	47							
	70	1.7	1.6	1.5	1.5	1.4	1.3							
	15	75	73	71	68	66	64							
	100	2.2	2.1	2.0	2.0	1.9	1.8							
	20	93	90	88	86	83	81	78						
	140	2.7	2.6	2.5	2.4	2.4	2.3	2.2						
	30	128	125	123	120	118	115	113						
	210	3.7	3.6	3.5	3.4	3.4	3.3	3.2						
	40	163	161	158	155	157	150	148						
	280	4.7	4.6	4.5	4.4	4.5	4.3	4.2						
	50	199	196	193	191	188	185	183	180					
	340	5.7	5.6	5.5	5.4	5.4	5.3	5.2	5.1					
75	288	285	282	279	276	273	271	268	265					
520	8.2	8.1	8.0	8.0	7.9	7.8	7.7	7.7	7.6					
100	378	374	371	368	365	362	359	356	353	350				
690	10.8	10.7	10.6	10.5	10.4	10.3	10.3	10.2	10.1	10.0				
125	468	464	460	458	454	451	448	445	442	439	436			
860	13.4	13.3	13.2	13.1	13.0	12.9	12.8	12.7	12.6	12.5	12.5			
150	558	555	551	547	544	541	538	534	531	528	524	521		
1030	16.0	15.8	15.7	15.6	15.5	15.5	15.4	15.3	15.2	15.1	15.0	14.9	14.9	
175	649	645	641	638	634	630	627	624	620	617	613	610	610	
1210	18.5	18.4	18.3	18.2	18.1	18.0	17.9	17.8	17.7	17.6	17.5	17.4	17.4	
200	740	736	732	728	724	721	717	713	710	706	703	699	699	
1380	21.2	21.0	20.9	20.8	20.7	20.6	20.5	20.4	20.3	20.2	20.1	20.0	20.0	

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