

Hydraulic Vapor Recovery Compressor HVR50-1020

Specifications & Performance

HVR50 - 1020

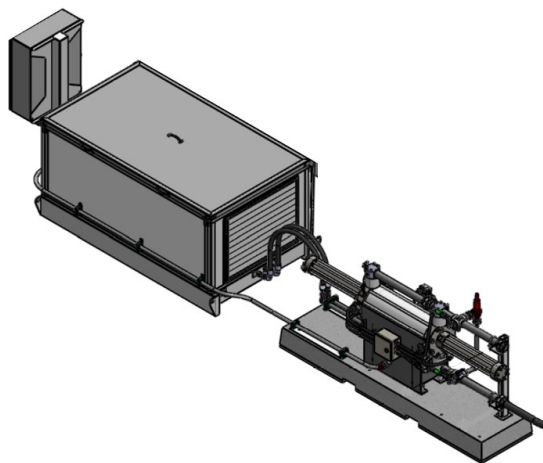
TECHNICAL SPECIFICATIONS

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	
Compression Cylinder	1020 Cylinder	
Max Discharge Pressure	1100 psi std / 1500 optional	7600 kPa / 10300 kPa
Max ΔP	190 psi	1310 kPa
Max Design Discharge Temperature	400°F	204°C
Max Geometric Displacement	112 mcf/d	3172 m ³ /day
Max Continuous Liquid Flow: 2-Phase Operation	198 bbl/d	32 m ³ /day

HYDRAULIC POWER PACK	
Driver	50 hp 3 phase TEFC electric motor
Pump	98.3 cc Single vane pump
Hydraulic Oil Filter	3 Micron
Oil Capacity	69 gal / 260 L
Cooling	Electric fan, finned tube type cooler
Oil Temperature Control	Automatic warm-up, 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
Remote Monitoring	Satellite callout for operating conditions, alarms, shutdowns

WEIGHTS AND DIMENSIONS		
Compressor on Concrete Slab	2600 lbs / 1180 kg	96" x 24" / 244 cm x 61 cm
Power Pack	2600 lbs / 1180 kg	96" x 53" / 244 cm x 135 cm
Inlet Connector	2" NPT	1 1/2" x 72" SS Flex Hose Standard
Discharge Connector	2" NPT	1 1/2" 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		✓



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Key Features

- ☑ Processes liquids in the compressor (no extra liquids handling equipment required)
- ☑ No operator setup or adjustment needed
- ☑ Minimum moving parts, minimum maintenance
- ☑ Self-start / auto restart after power outage
- ☑ Satellite call system provides instant notification
- ☑ Best-in-class reliability (>99.7% uptime)
- ☑ 100% turn down



HVR50-1020 (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	102	95	89	83	77	71	66	
	0	2.9	2.7	2.5	2.4	2.2	2.0	1.9	
	5	141	134	127	120	114	108	102	97
	34	4.0	3.8	3.6	3.4	3.2	3.1	2.9	2.7
	10	180	172	165	158	151	145	140	134
	69	5.1	4.9	4.7	4.5	4.3	4.1	4.0	3.8
	15	219	211	203	196	189	183	176	171
	103	6.2	6.0	5.7	5.6	5.4	5.2	5.0	4.8
	20	258	249	241	234	227	220	213	208
	138	7.3	7.1	6.8	6.6	6.4	6.2	6.0	5.9
	25		288	280	272	265	258	251	246
	172		8.2	7.9	7.7	7.5	7.3	7.1	7.0
	30		327	319	311	303	296	289	283
	207		9.3	9.0	8.8	8.6	8.4	8.2	8.0
	35		367	358	349	341	334	326	321
	241		10.4	10.1	9.9	9.7	9.5	9.2	9.1
40		406	397	388	380	372	364	359	
276		11.5	11.2	11.0	10.8	10.5	10.3	10.2	
45		445	436	427	418	410	402	397	
310		12.6	12.3	12.1	11.8	11.6	11.4	11.2	
50			475	465	457	448	440	432	
345			13.5	13.2	12.9	12.7	12.5	12.2	

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

Flow rates in mscf/d (e³m³/day). 15% correction factor applied to flow rates. Grey cells indicate 75HP motor.

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

*Projected performance at Sea Level, 14.7 psi, gas density 0.665, temp 68°F



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