

Hydraulic Vapor Recovery Compressor HVR10

Specifications & Performance

HVR10

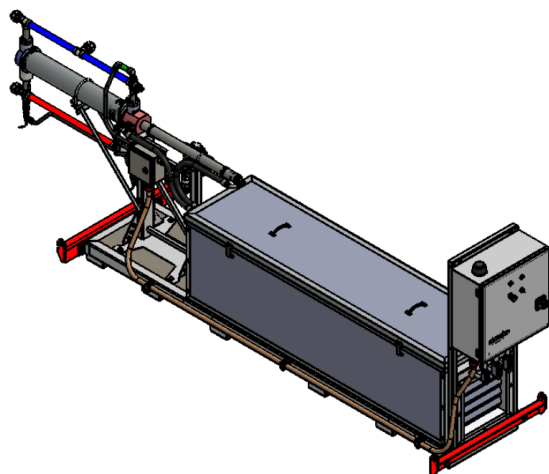
TECHNICAL SPECIFICATIONS

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	506 Cylinder	
Max Discharge Pressure	1100 psi std / 1500 optional	7600 kPa / 10300 kPa
Max ΔP	110 psi	760 kPa
Max Design Discharge Temperature	400°F	204°C
Max Geometric Displacement	26 mcf/d	736 m ³ /day
Max Continuous Liquid Flow: 2-Phase	139 bbl/d	22 m ³ /day

HYDRAULIC POWER PACK	
Driver	10 hp 3 phase TEFC electric motor
Pump	37 cc vane pump
Hydraulic Oil Filter	6 Micron
Oil Capacity	27 gal / 103 L
Cooling	Electric fan cooled
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	PLC hosted <u>wifi</u> with web browser HMI
Web Enabled Remote Monitoring	Cellular network IOT system

WEIGHTS AND DIMENSIONS		
Mono-Skid Unit	2200 lbs / 998 kg	175" x 38.75" / 444 cm x 98 cm
Inlet Connector	1" 3000 Union	1" x 48" SS Flex Hose Standard
Discharge Connector	1" 3000 Union	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		✓



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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
- ☑ Cellular IOT system provides instant notification
- ☑ Best-in-class reliability (>99.7% uptime)
- ☑ 100% turn down



HVR10 (37cc Hydraulic Pump) Performance

		Discharge Pressure (Max ΔP 110 psi)						
		25	50	75	100	125	150	175
		KPa						
Suction Pressure	0	22	21	20	19	18		
	0	0.6	0.6	0.6	0.5	0.5		
	5	30	29	28	27	26		
	34	0.8	0.8	0.8	0.8	0.7		
	10	38	37	36	35	34		
	69	1.1	1.0	1.0	1.0	1.0		
	15	46	44	43	42	42		
	103	1.3	1.2	1.2	1.2	1.2		
	20	54	52	51	50	49		
	138	1.5	1.5	1.4	1.4	1.4		
	25		60	59	58	57	56	
	172		1.7	1.7	1.6	1.6	1.6	
	30		68	67	66	65	64	
	207		1.9	1.9	1.9	1.8	1.8	
	35		76	75	74	73	72	
	241		2.2	2.1	2.1	2.1	2.0	
40		84	83	82	80	79		
276		2.4	2.4	2.3	2.3	2.2		
45		92	91	90	88	87		
310		2.6	2.6	2.5	2.5	2.5		
50			99	97	96	95	94	
345			2.8	2.7	2.7	2.7	2.7	

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.

***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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