

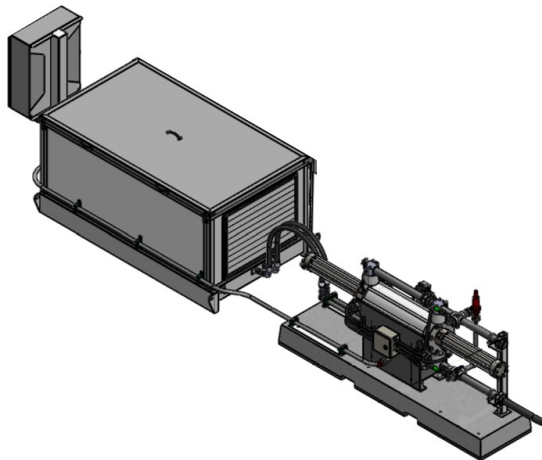
# Hydraulic Vapor Recovery Compressor 50 hp Datasheet

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	<b>1022 Cylinder</b>	
Max Discharge Pressure	1100 psi std / 1500 optional	7600 kPa / 10300 kPa
Max $\Delta P$	190 psi	1310 kPa
Max Design Discharge Temperature	400°F	204°C
Max Geometric Displacement	77 mcf/d	2180 m <sup>3</sup> /day
Max Continuous Liquid Flow: 2-Phase Operation	138 bbl/d	22 m <sup>3</sup> /day

HYDRAULIC POWER PACK	
Driver	50 hp 3 phase TEFC electric motor
Pump	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 $\Delta P$	✓	
Motor Overload		✓
ESD		✓

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\*Projected performance based at sea level, 14.7 psi, gas density .665, temp 68°F

## 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



### HVR50-1022 (98.3cc Hydraulic Pump Option) Projected Performance (Max ΔP 190 psi)

		Discharge Pressure						
psi		50	75	100	125	150	175	200
KPa		345	517	689	862	1034	1207	1379
Suction Pressure	0	78	72	67	62	58	53	49
	0	2.2	2.0	1.9	1.8	1.6	1.5	1.4
	5	109	103	98	93	88	83	78
	34	3.1	2.9	2.8	2.6	2.5	2.4	2.2
	10	140	134	129	123	118	113	108
	69	4.0	3.8	3.7	3.5	3.3	3.2	3.1
	15	172	166	160	154	149	144	138
	103	4.9	4.7	4.5	4.4	4.2	4.1	3.9
20	203	197	191	185	179	174	169	
138	5.7	5.6	5.4	5.2	5.1	4.9	4.8	

### HVR50-1022 (120cc Hydraulic Pump Option) Projected Performance (Max ΔP 190 psi)

		Discharge Pressure						
psi		50	75	100	125	150	175	200
KPa		345	517	689	862	1034	1207	1379
Suction Pressure	0	95	88	82	76	70	65	61
	0	2.7	2.5	2.3	2.2	2.0	1.8	1.7
	5	133	126	119	113	107	101	96
	34	3.8	3.6	3.4	3.2	3.0	2.9	2.7
	10	171	164	157	150	144	138	132
	69	4.8	4.6	4.4	4.2	4.1	3.9	3.7
	15	209	202	195	188	181	175	168
	103	5.9	5.7	5.5	5.3	5.1	5.0	4.8
20	248	240	233	225	219	212	205	
138	7.0	6.8	6.6	6.4	6.2	6.0	5.8	

Flow rates in mscf/d (e3m3/day). Values in grey are at max differential pressure.

HVR50-1022 (120cc Hydraulic Pump) only available for warm climates.

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



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