

Hydraulic Vapor Recovery Compressor HVR100-1020

Specifications & Performance

HVR100 - 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	2 x 1020 Cylinders	
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 ³ /day
Max Continuous Liquid Flow: 2-Phase	396 bbl/d	63 m ³ /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)

CONTROLS AND INSTRUMENTATION	
System Control	PLC with data logging
Readout	Web browser HMI interface, optional multifunction LCD display
SkyView Remote Monitoring	Cellular callout for operating conditions, alarms, shutdowns

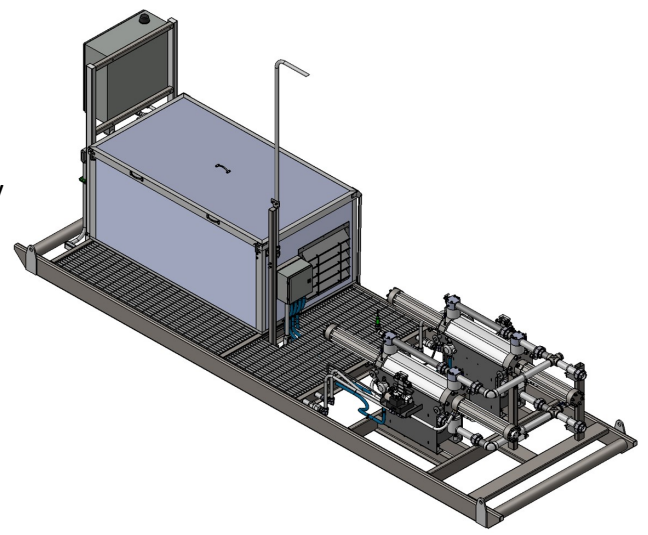
WEIGHTS AND DIMENSIONS		
Weight	9500 lbs	4309 kg
Dimensions (L x W x H)	240" x 86" x 91"	610 cm x 218 cm x 231 cm
Inlet Connector	3" #150 Flange	
Discharge Connector	2" #150 Flange (Optional #300 Flange)	

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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Key Features

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



HVR100-1020 (98.3cc Hydraulic Pump) Performance

		Discharge Pressure (Max ΔP 190 psi)							
		25	50	75	100	125	150	175	200
		KPa							
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 (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.**



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