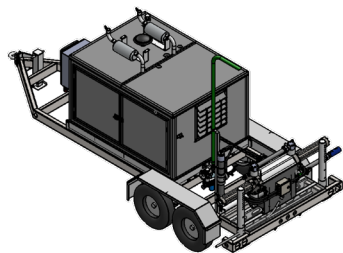


Hydraulic Casing Gas Compressor – 50 hp Gas Drive Trailer



KEY FEATURES

- Capable of handling liquids and slugs
- Maximum ΔP up to 2620 kPa (380 psi)
- 100% turndown capability
- Small footprint
- Engine drive for sites with no electric power
- Highly portable for testing well response
- NHSP (No Hassle Service Plan) & SkyView

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

HYDRAULIC POWER PACK

| | | | | |
|-----------------------------------|--|--|--|--|
| Driver | 8-cylinder natural gas drive engine | | | |
| Usable power | 80 hp @ 2300 rpm | | | |
| Fuel Consumption | 782 scf/hr / 531 m ³ /d | | | |
| Ignition | Electronic | | | |
| Starter | Electric | | | |
| Oil Conditioning | Slipstream 10 micron filter | | | |
| Oil Capacity | 16 gal / 61 L | | | |
| Silencer | Mac – whisper quiet | | | |
| Governor | Woodward electronic | | | |
| Hydraulic Pump | External gear pump | | | |
| Hydraulic Oil Filter | 3 Micron | | | |
| Hydraulic Oil Capacity | 69 gal / 260 L | | | |
| Hydraulic Cooling | Offline cooling loop, bar and plate cooler, fan-cooled | | | |
| Hydraulic Oil Temperature Control | Automatic warm-up, cold-start protection | | | |
| Wiring | General purpose (remote from compressor) | | | |

CONTROLS AND INSTRUMENTATION

| | |
|-------------------------------|---|
| System Control | PLC with data logging |
| Readout | Multifunction LCD display |
| Engine Analog Gauges | Oil pressure, coolant temperature, fuel pressure |
| Web Enabled Remote Monitoring | Satellite callout for operating conditions, Alarms, Shutdowns |

WEIGHTS AND DIMENSIONS

| | | | |
|---------------------|---|--------------------|--|
| Trailer Weight | 7800 lb / 3540 kg | | |
| Trailer Dimensions | 240" L x 94" W x 100"H / 610 cm x 240 cm x 255 cm | | |
| Inlet Connector | 2" NPT | 1½" Hose available | |
| Discharge Connector | 2" NPT | 1½" Hose available | |

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 | ✓ | ✓ |
| Engine Oil Level Low | ✓ | |
| Engine Coolant Temperature High | | ✓ |
| Engine Oil Pressure Low | | ✓ |
| ESD | | ✓ |

OPTIONS

- High discharge pressure transmitter
- Piping for corrosive process gas
- Glycol heat trace

APPLICATIONS

- Casing Gas Compression (Sweet & Sour Service)
- Tank Vapour Recovery
- Flaring / Venting Reduction
- Gas Recovery From Treaters/Separators
- Pressure Boosting
- Pigging / Pig Launching
- SAGD / CSS Production Optimization
- Compressor Seal Vapour Recovery
- Frac Flowback Gas Recovery

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Hydraulic Casing Gas Compressor – 50 hp Gas Drive Trailer

| HCG50 Gas Drive Trailer with 1022 Cylinder | | | | | | | | | | | | | | |
|---|-----------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|--|
| DISCHARGE PRESSURE Max ΔP: 225 psi / 1550 kPa | | | | | | | | | | | | | | |
| SUCTION PRESSURE | PSI | 75 | 100 | 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 | 797 | 790 | 784 | 778 | 773 | | |
| 860 | | | | 23.5 | 23.3 | 23.1 | 22.9 | 22.0 | 22.6 | 21.4 | 22.2 | 22.1 | 22.1 | |
| 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 | 30.8 | |
| 200 | | | | | | | 1269 | 1261 | 1254 | 1246 | 1239 | 1232 | | |
| 1380 | | | | | | | 36.3 | 36.0 | 35.8 | 35.6 | 35.4 | 35.2 | 35.2 | |

| HCG50 Gas Drive Trailer with 1028 Cylinder | | | | | | | | | | | | | | |
|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------|--|
| DISCHARGE PRESSURE Max ΔP: 380 psi / 2620 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 | 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 | | |
| 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 | | |
| 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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