675 Series HC27000 CG1 pump

Increase flow and longevity in hotter applications

Applications

- Water market
- Geothermal and SAGD applications

Features and benefits

- Advanced Thermal Design
  - Incorporation of field-proven design features from successful series like 400 and 538 CGs.
  - Enables operation in extreme high-temperature geothermal applications where standard equipment would fail prematurely, ensuring reliability and longevity.
- High-Temperature Operation
  - Engineered for up to 220°C (water) temperatures.
  - Withstands challenging geothermal environments, extending pump lifespan and enhancing operational efficiency.
- Single ESP Solution
  - Specifically designed for midsize ESPs, offering an alternative to using smaller pumps in parallel configurations
  - Streamlines installation, offers a competitive edge with a single ESP, meeting global midsize ESP demand.
- Transfer of Successful Design Practices
  - Application of SAGD design practices dynamics.
  - Leverages proven expertise for adaptability and reliability, accelerating development.
- Market-Leading Efficiency
  - Engineered for optimal efficiency
  - Challenges larger pumps, providing a versatile, efficient choice for geothermal energy production

Advanced design and enhanced efficiency

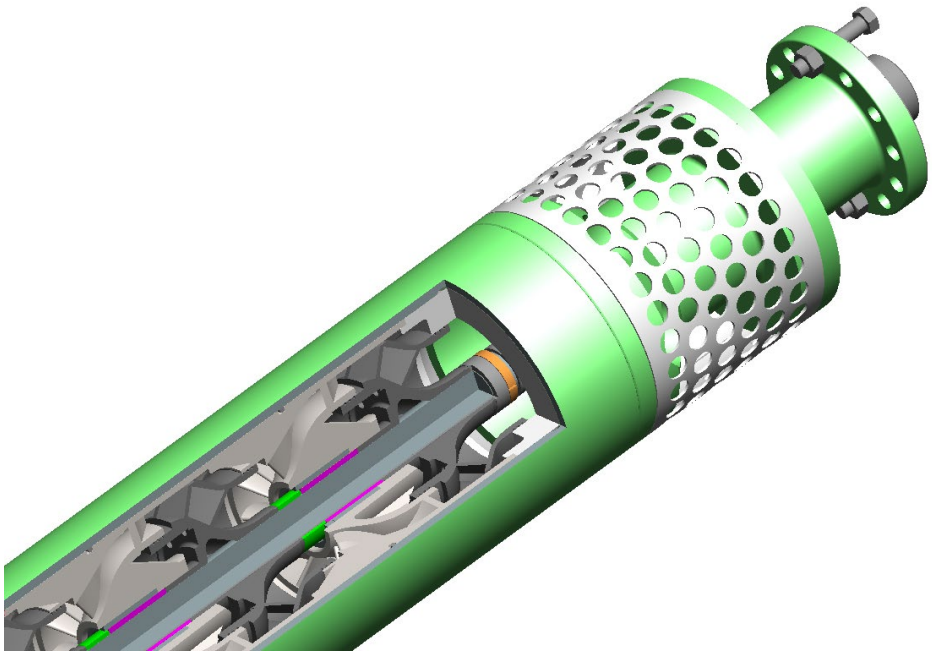
The **675 Series HC27000 CG1 pump** integrates advanced hydraulic design and manufacturing technology, ensuring peak efficiency across a versatile flow range (22,500 to 33,500 bpd); Equipped with enhanced features, it empowers customers to achieve production and economic goals in geothermal and water system projects.

Advanced Thermal design

Engineered materials and the integration of proven design features from Series 400 and 538 CGs enable reliable operation in extreme high-temperature geothermal applications. This design not only enhances operational efficiency but also extends the pump's lifespan in challenging environments.

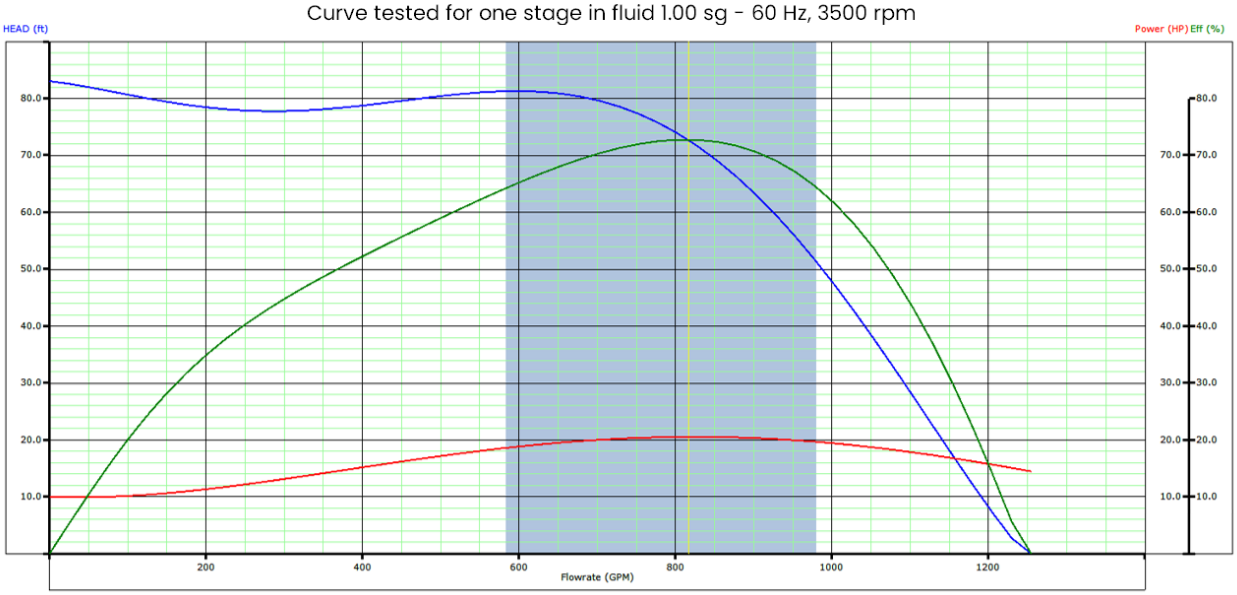
Single ESP Solution

Tailored for Midsize ESPs, the pump eliminates the need for multiple smaller pumps, streamlining installations. By maximizing lift and flow with a single ESP, it provides a competitive advantage, addressing the growing global demand for midsize ESPs and offering efficiency in geothermal energy production.



HC27000 pump performance curve

Curve tested for one stage in fluid 1.00 sg - 60 Hz, 3500 rpm



Specifications	
Series	675
Stage Construction Type	Housed (compression)
Stage Material	Ni-Resist
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Stage Geometry	Mixed flow
Bearing Ratio	1:1
Abrasion Resistance Bearing Material	Tungsten Carbide with Cobalt Binder
Shaft Diameter	1-3/16 in (0.0302 m)
Spline End Connection	6 Tooth straight splines (upstream end)
Pump Outside Diameter	6.75 in (0.171 m)
Discharge Connection	5.5" 8RD LTC
Minimum Operational Flow Rate	485.000 GPM (36.803 lt/sec)
Maximum Operational Flow Rate	813.592 GPM (61.644 lt/sec)
BEP (Best Efficiency Point) Flow Rate	680.017 GPM (51.524 lt/sec)
BEP Head Per Stage	72.178 ft (22.00 m)
BEP Efficiency	73%
Horsepower Per Stage	20.8 hp (15.51 Kw)
Temperature Rating	428°F (220°C)

Baker Hughes