

Chorus IGNIS Specifications



Mechanical

Maximum temperature	395°F 200°C*
Maximum pressure	14,500 psi 100 MPa
H ₂ S resistance	Up to 30%
Outside diameter	1.69 in 43.2 mm
Housing material	Titanium
Tool length	46 in 1,161 mm
Tool weight	11.7 lb 5.3 kg
Typical logging speed	9 ft/min 3 m/min
Logging mode	Memory and Real-time

Measurement

Dynamic range (LFP)**	108 dB
Dynamic range (HPF)**	100 dB
Frequency range (LFP)	8 – 5,000 Hz
Frequency range (HPF)	3,000 – 58,500 Hz
Sensors	1
Frequency channels	2
Operating time	140 hrs
Cable mode	Yes
Vertical resolution	1 m
Minimum leak rate (water)	1 l/hr***

*Indicative ranges and operating envelopes have been provided. Actual specifications and temperature rating depend on tool combination, product type and downhole time.

** LFP (low-frequency pass), HPF (high-frequency pass)

*** 1st barrier, hole diameter 0.2 mm, ΔP = 2 bar.

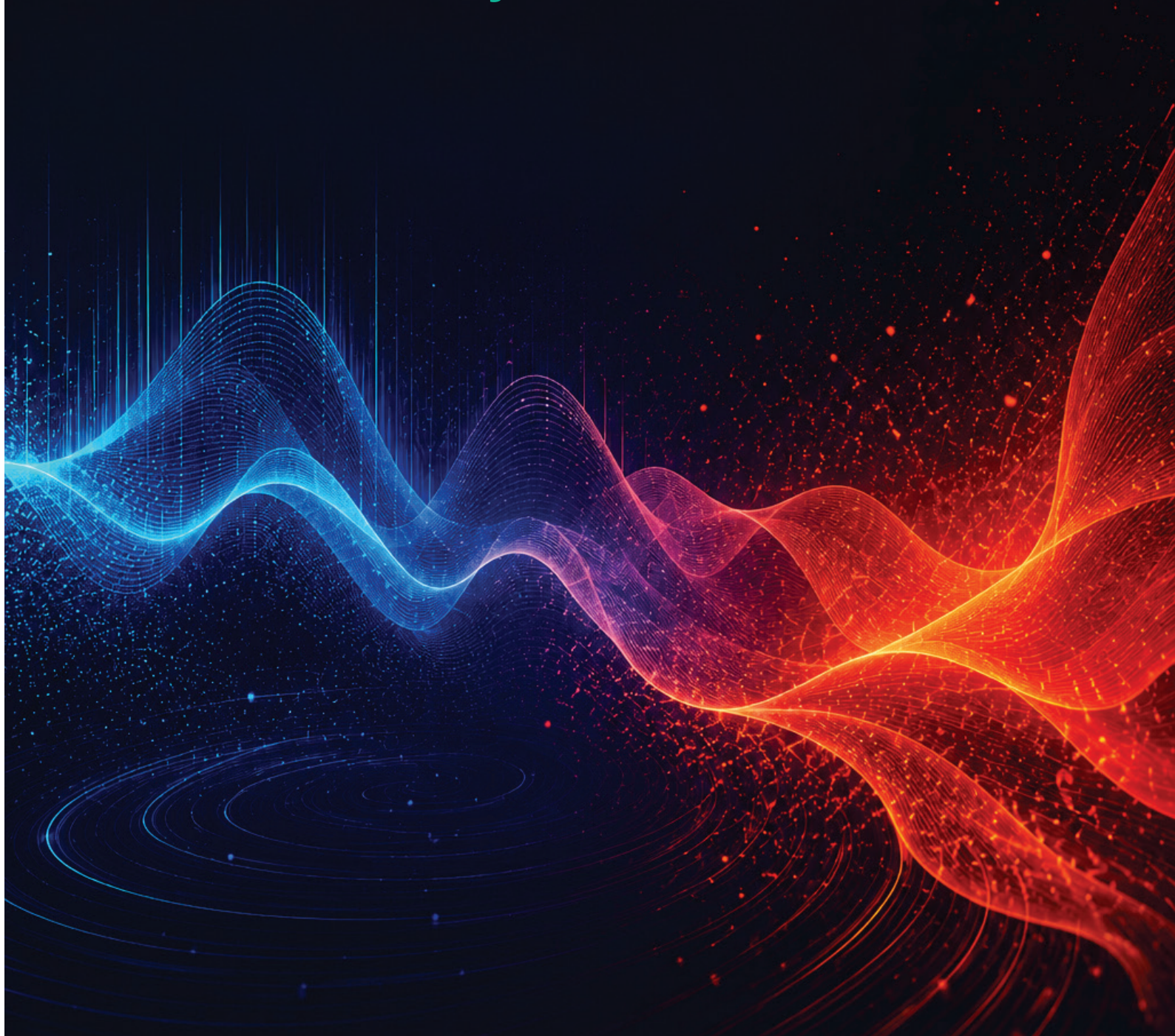


Our Anechoic Chamber help us further our acoustic diagnostic capabilities.



Chorus IGNIS

Extreme temperature acoustic diagnostics for Flow certainty in hot wells



Hotter wells. Broader spectrum.

Complete flow confidence.

Chorus IGNIS delivers high-fidelity acoustic evidence in extreme-temperature wells, helping operators identify flow paths, leaks, crossflow and barrier performance with confidence.

It extends broad-spectrum Chorus diagnostics into harsher operating environments, preserving the measurement fidelity and interpretation confidence.



High-Temperature insights across critical applications

Chorus IGNIS Identifies where fluids are moving, how they are moving, and whether barriers are performing as intended. Supports flow diagnostics, leak detection, behind-casing movement, barrier isolation, geothermal assurance and P&A decisions.

Critical for geothermal wells, Chorus IGNIS helps reveal production and injection flow paths, water losses, behind-casing movement and barrier performance where temperature limits conventional diagnostics.

Engineered for heat.

Built on proven Chorus performance.



Built on TGT's Chorus acoustic sensing and analysis technology, engineered to preserve high-fidelity acoustic evidence when temperature, pressure and complex completions limit conventional diagnostics.

Designed, engineered and manufactured in-house for reliable performance in harsh environments.



The challenge

Deep, hot and geothermal wells demand clarity on flow movement and barrier status, yet conventional diagnostics can be constrained by heat, pressure and completion complexity

What IGNIS enables

Reliable acoustic evidence for flow location, crossflow, behind-casing movement, leaks and seal validation in extreme-temperature conditions.

The impact

- Reduce intervention uncertainty
- Improve production, injection and barrier decisions
- Extend diagnostics into conditions where conventional tools may be limited

Result

Clearer acoustic evidence in extreme-temperature wells. Confident decisions.