SITE MATRIX



MECHANICAL, HYDRAULIC & HVAC THERMOGRAPHY

> **"Failure doesn't start with a breakdown. It starts with heat."**
>
> Thermal inspections find hidden faults in mechanical, hydraulic, and HVAC systems before they cause downtime.
>
> — Site Matrix

Problem

Heat reveals friction, overload, flow restriction and electrical issues.

Fix

Targeted action prevents breakdowns, extends asset life and saves money.

- Infraspection Thermography L2 Certified
- Registered Professional Engineers
- Engineer-led · CASA ReOC 9692 · Night-qualified, radio-qualified pilots · $20M public liability.
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- 22+ years diagnosing / designing managing engineering projects
- >500 diagnostic faults identified and resolved.

What we inspect

Motors & drives — Bearings, couplings, windings, alignment, VFDs and starters

Pumps & hydraulics — Symptoms of cavitation, leaks, blockages, valve issues, fluid systems, in-slab hot water leak tracing, hot water and TMV systems and underfloorheating.

HVAC systems — Fans, chiller, compressors, coils, dampers, ductwork, plant and equipment

Piping & pressure systems — Insulation loss, blockages, trapped condensate

At a glance

No Shutdown
Assets scanned live, under normal load. No isolation or downtime needed

100% – Every asset
Every motor, pump, AHU and pipe run in scope is imaged, not spot-checked.

Early warning
Heat shows up before failure, giving time to plan repairs instead of reacting to breakdowns.

Scans performed under normal operating load. Coverage depens on site access and conditions.

How it works

1. **Identify —** Scan assets in service to find heat anomalies
2. **Verify —** Engineer & Thermographer reviews thermal patterns against load and context
3. **Act —** Prioritised actions to prevent failure and optimise performance

What you get

- ✓ Full asset heat map and priority list
- ✓ Engineer-reviewed findings and actions
- ✓ Clear before / after comparisons -> trended programs.
- ✓ Simple reports you can use
- ✓ Better uptime, safety and efficiency

OPTIONAL
Aerial thermal for buried pipework

WHO IS IT FOR

Asset Owners / Mechanical Contractors / Hydraulic & Other Trade Contractors / Plumbers.

Pairs with: Electrical Thermography / Energy Analysis / Roofs and Facades / Drone Inspections

Lower bills. Stronger assets. Smarter decisions.

Book Your Predictive Inspection today — Speak to Us Today

0421 043 325 info@sitematrix.com.au