

How We Select the Right Technology

Selecting the Right Technology

Every environment is different.

Smoke contamination, flood damage, biological contamination, persistent odours and indoor air quality challenges all present unique treatment requirements. Following a professional environmental assessment, PrimeSphere selects the most appropriate treatment technology – or combination of technologies – to achieve the best possible outcome safely, professionally and in accordance with documented procedures.

Our Assessment-Led Approach

Professional Assessment



Identify the Contamination



Select the Most Appropriate Technology



Carry Out the Treatment



Measure, Verify & Document the Outcome



Issue Certification & Environmental Documentation



Why Technology Selection Matters?

No single environmental treatment technology is suitable for every contamination scenario.

Ozone, thermal fogging and ULV cold fogging each have distinct strengths and limitations. Professional assessment allows PrimeSphere to recommend the most appropriate technology – or combination of technologies – based on the contamination present, the environment and the desired outcome.

Controlled Ozone Treatment

Best suited for:

- Smoke odours
- Fire damage restoration
- Vehicle interior odours
- Hospitality
- Healthcare
- Vacant properties
- Organic odours

How it works

Controlled ozone treatment uses ozone (O_3), a highly reactive form of oxygen, to oxidise odour molecules and certain airborne contaminants. Following treatment, ozone naturally decomposes back into oxygen after adequate ventilation.

Key advantages

- Chemical-free treatment process
- Leaves no chemical residue following adequate ventilation
- Penetrates inaccessible areas
- Suitable for persistent odours

Typical applications

- Vehicles
- Hotels
- Healthcare
- Residential
- Commercial
- Student accommodation

Thermal Fogging

Best suited for:

- Fire restoration
- Smoke contamination
- Nicotine residues
- Severe odour contamination
- Porous materials

How it works

Thermal fogging produces an ultra-fine vapour that follows the same pathways as smoke, allowing the treatment to penetrate voids, fabrics and difficult-to-reach areas. This makes it particularly effective where contamination has travelled beyond accessible surfaces.

Key Advantages

- Excellent penetration
- Large area coverage
- Supports restoration projects
- Suitable for severe contamination

ULV Cold Fogging

Best suited for:

- Deodorisation
- Environmental sanitisation
- Mould remediation support
- Flood restoration
- Healthcare
- Commercial environment

How it works

ULV Cold Fogging disperses the selected treatment formulation as an extremely fine mist, providing even distribution across treated areas while using minimal liquid volume.

Key Advantages

- Rapid coverage
- Suitable for sensitive environments
- Supports large-area treatment
- Precise application

Illustrative Treatment Sequence

Where professional assessment identifies that multiple treatment technologies used in the correct sequence will provide the most effective environmental outcome.

Example:

Professional assessment identifies the contamination.

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Thermal fogging penetrates porous materials.

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Controlled ozone treatment addresses remaining odours.

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Environmental verification confirms the outcome.

Why Technology Selection Matters

Selecting an inappropriate treatment technology may reduce effectiveness, increase treatment times and lead to inconsistent results. PrimeSphere does not apply the same solution to every environment. Every project begins with an assessment to determine the most appropriate treatment strategy based on the contamination, environment and desired outcome.

Technology	Primary Purpose	Residue	Penetration	Typical Applications
Controlled Ozone	Persistent odours	No chemical residue	Excellent	Vehicles, smoke, hospitality
Thermal Fogging	Smoke & fire restoration	Treatment-dependent	Outstanding	Fire damage, nicotine, severe contamination
ULV Cold Fogging	Deodorisation & sanitisation	Treatment-dependent	Outstanding	Healthcare, commercial, mould support

Every recommendation made by PrimeSphere is based on professional assessment, documented procedures and the specific requirements of the environment being

treated. Our objective is not to promote a particular technology, but to recommend the most appropriate solution for each environment.

