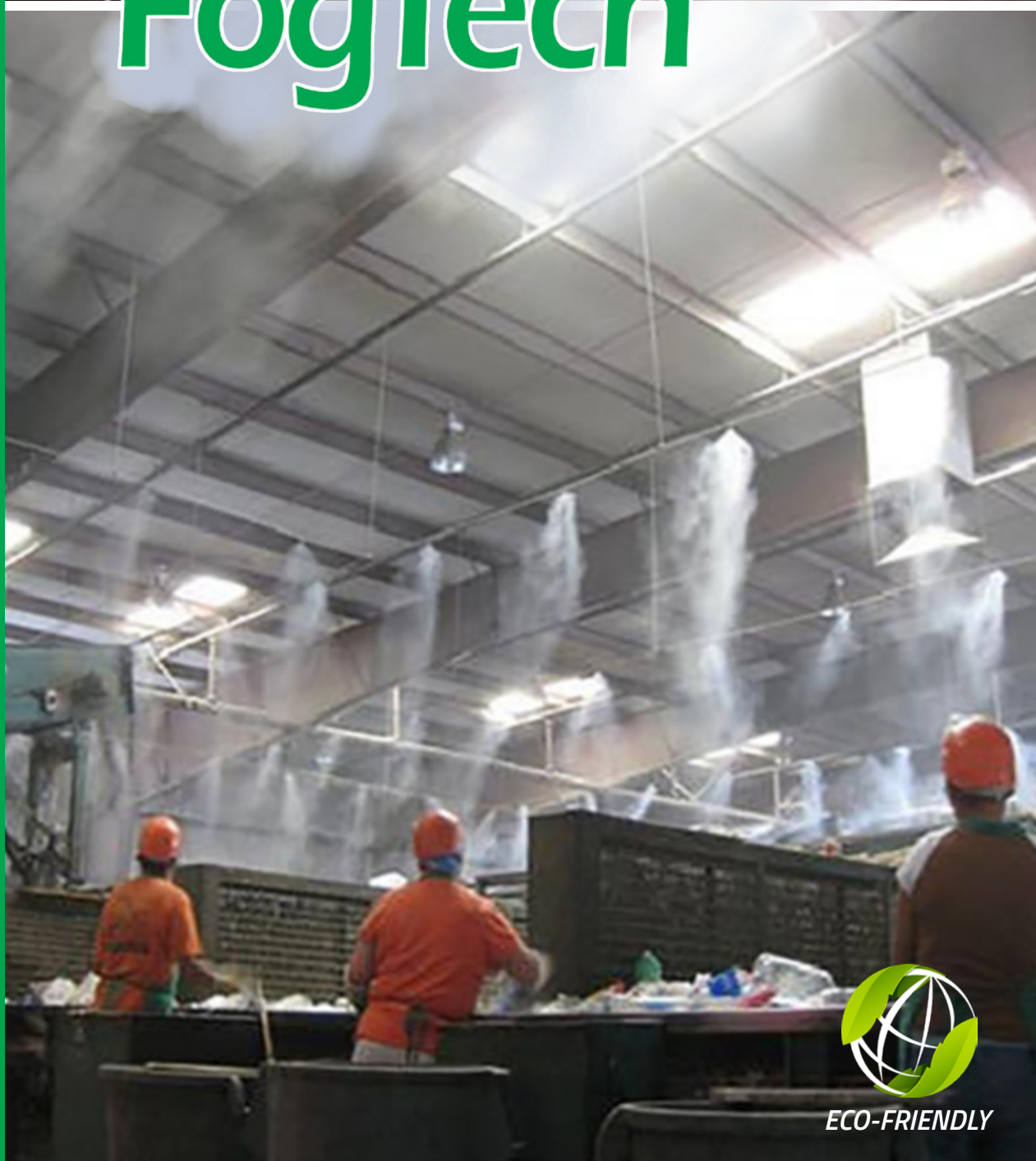
FT Series

Industrial Fogging Systems

FogTech

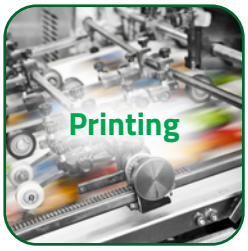


ECO-FRIENDLY

Efficiency Under Pressure

Industries Served

FT Series



FogTech

The Advantages

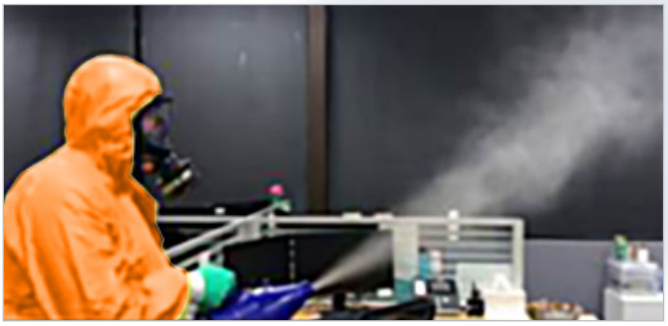
Fogging machines are used in a wide range of industries to provide for a wide and often critical range of requirements.

Applications

Sanitation

Applying chemicals and disinfectants to production areas as fogs or mists is a method used routinely in the manufacturing, processing, and health industries.

The purpose is to create and disperse a disinfectant aerosol to reduce the numbers of airborne micro-organisms and also to apply disinfectant to surfaces and plant that may be difficult to reach.



Environment Control

Fogging is used to suppress unwanted dust and smaller airborne micro-particles created by external conditions and processes to make the environment around us safe and comfortable to work in – for example, the recycling industry.

It is also used to apply odour-neutralising chemicals to eliminate malodours and freshen up the air that we are breathing.

Humidification

Fogging systems are used to control humidity levels in both small and large industrial and agricultural environments.

They serve to cool and humidify the atmosphere, creating a more 'natural environment' that may be unbalanced by internal controls or processes.

Specialty Applications

Fog can be used to create speciality background ambience and atmosphere for the arts industry – such as the filming and entertainment industries.

It can be used to reduce static electricity charges in the atmosphere and for maintaining dew point in temperature-controlled environments.

The Benefits

Fogging offers many benefits for these applications as listed and to name a few:

Low Material Usage – Low Cost

Foggers have a very low liquid consumption per m^3 of surface area covered therefore a very cost-effective method of application.

High Coverage Rate

Foggers produce very high density but very small water particles that will find their way into corners, recesses, and industrial that no other application can.

No Lasting Residue

As the fog produces a very fine mist with water particles of only 1–10 micron size, there is no visual water content left on surface areas which is why it's often referred to as 'dry fogging.'

Atmospheric

Fogging is the most effective and economical means of dispensing water or chemical solutions into the atmosphere for immediate penetration and results.

Controllable

Fogging can be easily applied and controlled with both manual or automatic systems while being made more visible with colour additives if necessary. Timers assist with scheduled and regular fogging and over 'non-production' intervals.

The Process

Fogging is a process whereby a mixture of compressed air or liquid is forced through a very small orifice or nozzle at a pressure of 3–4 bar. The liquid is then atomised down to a minute particle size of 1–10 microns, thus creating the effect of a fine mist or 'fog.'

The fogging machine may be an all-in-one combined air compressor/fogging unit also containing the liquid, usually in the form of a handheld portable unit. These manual foggers are either electric or gasoline powered. Or for larger and industrial applications, the fogger may be a customised setup of fogging nozzles connected to both liquid and compressed air piping systems, and may be controlled by solenoid valves, relays and timers. The larger fogger system is usually installed at ceiling height for maximum factory coverage protection.

The Range

Portable Electric

Ideal for smaller and one-off applications, or where access is limited, the 230 volt portable range of FogTech foggers can be used in smaller areas such as houses, office spaces, and vehicles or for specific surface cleaning of items, plant, and equipment.

FogTech FT4E

Lightweight and easy to use, the FT4E is the perfect fogging solution for inside vehicles, smaller spaces and surfaces.

With a powerful 1200 watt motor, the impressive mister will atomise 260ml/min with a up to 10m reach.

The 4.5 litre solution tank will provide up to 20 minutes of continuous fogging with atomisation down to 5 micron, to reach into cover the tightest of areas, with no wet residue left behind.

FogTech FT8E

With a fogging throw of up to 10 metres, this fully packaged unit has the capacity to spray from small, confined areas, right up to larger commercial office spaces and small factories/processing areas.

The powerful 230 volt 800w compressor atomises the solution from 100 micron down to 5 micron particle size and has an adjustable fogging volume of up to 700ml/min of solution. With a large 8 litre holding tank, this unit is truly versatile.

FogTech FT10E

Portable and powerful, this sanitiser machine can serve as both a stationary and mobile fogging unit for larger office spaces and factories/ processing areas.

The large 1400w compressor provides the capacity for longer running times, which is facilitated by a large 10 litre solution tank and it has a dispensing capacity of up to 700ml/min. Fog atomisation ranges from 100 down to 5 microns, making for a high density fogging coverage.

FogTech FT5SE

This industrial-rated model is designed to meet critical sanitisation requirements such as with surgeries, pharmaceutical manufacturing, and laboratories. Manufactured from certified non-magnetic stainless steel and medical grade components, the Micromist incorporates extra features such as inbuilt 0.5 micron air filtration, a 0–120 minute timer, and calibrated atomisation for a consistent and very fine 2–3 micron fog at a rate of 50ml/min. With a 5-litre holding tank, the Micromist has a fog throw of up to 8.3 metres, meaning it can be used as both a handheld and stationary fogger. The Micromist is completely autoclavable at 120°C for up to 30 minutes at a time.

Stationary Compressed Air-Powered

The industrial range of compressed air-powered fogging systems are designed for permanent and larger set-ups and where the application is routine, such as in processing factories.

This range can be custom designed and installed to suit your particular requirements and is made up of two systems working simultaneously.

An external compressed air supply is piped to a number of ceiling or floor-mounted foggers, alongside a solution supply which is piped from a holding reservoir.

The two systems are controlled by isolation valves and can be automated with timer control for 24/7/365 operation.

FogTech FT4A

This aerial mount compressed air-powered fogging unit is designed to be used in a multiple head system, usually mounted at ceiling height, to cover entire warehouse/factory atmospheric spaces as well as all surface areas.

With four nozzles each, the FT4A unit can throw fog in an eight-metre span with a very fast dispensing rate of up to 22ml/min, depending on nozzle size.

The approximate compressed air consumption is 140l/min per four-nozzle fogging head at a 3 bar pressure.

Installed correctly with the correct number of misting heads, the FT4A fogging system is very fast, very effective, and an efficient way to micro-mist large areas in a short timeframe.

FogTech FT5S2A

This mobile or stationary compressed air-powered fogger is designed for critical area requirements such as laboratories, pharmaceutical manufacturing, and surgeries.

With a five-litre solution tank, the twin nozzles will throw a very fine 2–4 micron mist up to four metres at a rate of four litres per minute.

The compressed air consumption is a minimal 170l/min at 4 bar pressure.

Constructed from certified non-ferrous stainless steel and medical grade components, this quality industrial-rated fogging unit provides long-term and reliable high performance misting to every application.

FogTech FT20S2A

This large fogger has a 20-litre solution capacity with twin nozzles and is designed for aerial sterilisation of larger high sanitisation areas at one time.

As with the other FTS models, this unit is fully autoclavable at 120°C to meet critical sanitisation requirements such as in laboratories, pharmaceutical processors and surgeries.

With inbuilt filtration, high performance componentry, non-ferrous construction, this unit is non-corrosive for long-term performance and safe sanitisation.

FogTech FT25SA

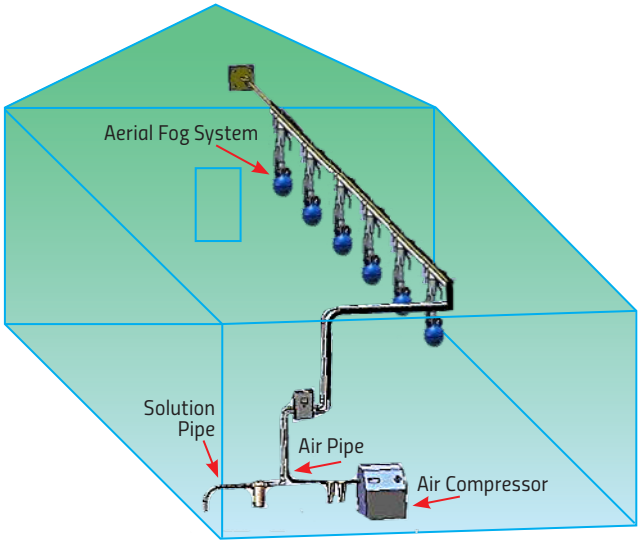
Like the FT20S2A model but with a hand wand and designed for surface sterilisation, the FT25S2A will cover larger surface areas in critical sanitisation situations.

With a very fine atomisation of 2–4 micron mist, the FT25SA fogger will sanitise the tightest and most inaccessible of areas.

A two-stage 0.5 micron intake air filter means that there are virtually no maintenance requirements for this high precision fogger, guaranteeing long-term performance and reliability.

System Layouts

The FogTech aerial fogging process is designed to be installed into buildings as a permanent system, enabling routine fogging that is commonly controlled by timers and activated when the production or work area is outside operational hours.



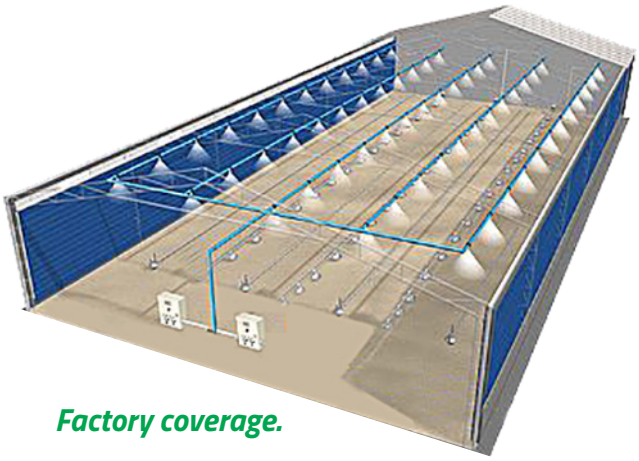
Aerial fogging system set-up.

The advantage of the aerial system is that it can be custom designed and installed to suit any factory or area layout, ensuring total and even fogging coverage with the least chance of product wastage.

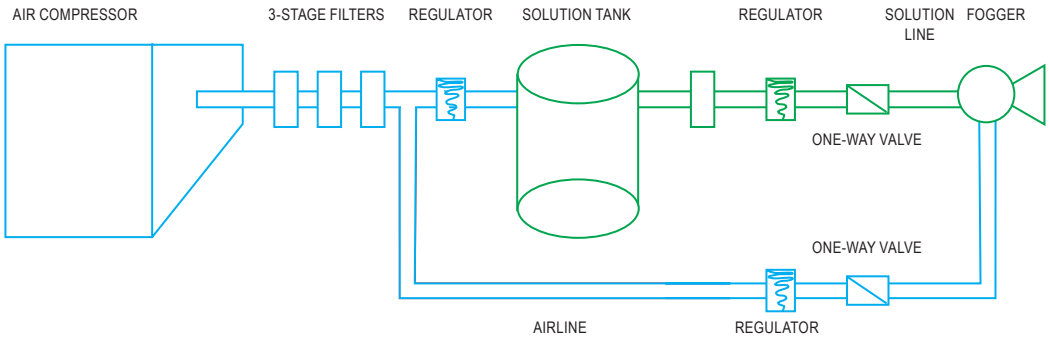
Utilising compressed air pressure to create very fine atomisation, the FogTech aerial system is effective, efficient, and automated.

The FogTech aerial fogging system requires a clean and dry compressed air supply which is piped alongside the chemical solution supply line and into the ceiling-mounted foggers.

The compressed air needs to first pass through Class I (ISO 8573-1.4.1) air filtration and is then reticulated through fixed piping via a regulator and one-way valve system.



Factory coverage.



System Process

Sterile Solutions

We supply a range of disinfectant solutions to be used by FogTech fogging machines and systems. These solutions proven to reach a very high standard of sterilisation and can be used as a one-off application or in a routine sterilisation process.

Room fogging is proven to be the most thorough and cost-effective method for treating exposed surfaces and the use of GeoSIL disinfectants with FogTech fogging machines has introduced a new and effective tool in the fight against many common infectious outbreaks.

GeoSIL150 is a versatile, lightly concentrated version of GeoSIL® Universal Disinfectant and is safe to transport, handle and use without special conditions. It is tasteless and odourless, will not produce undesirable disinfection by-products, cause skin irritations or other allergic reactions. In use, GeoSIL150 breaks down into water and oxygen.

The universal, non-polluting and wide range of applications, means GeoSIL® disinfectants are considered to be among the safest, most reliable and modern disinfection solutions, even under the most unfavourable conditions.

GeoSIL150 is a versatile general purpose anti-viral disinfectant suitable for a wide range of waterborne and surface pathogens. It is totally chlorine free, and all of the ingredients of GeoSIL are approved food additives. GeoSIL150 is suitable for disinfection of all types of surfaces, including plastics, metal, glass, stone, china, stainless steel, etc.

Fogging Service

FogTech NZ provides an on-site fogging service to disinfect your workspace and guarantee it sanitised, free from viral contamination and safe for your staff to work in.

The fogging process is instant and will disinfect the atmosphere as well as all surface areas that the penetrating fog comes in contact with, thereby breaking down and leaving zero residue. The work area fogged can be worked in in as little as one hour after the sanitisation takes place.

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