



# biOx

DUST, ODOUR **AND** COOLING SPECIALISTS





**bioX** is a leading provider of dust, odour and cooling control equipment for large scale industrial and manufacturing sites. With over 20 years' combined experience in this area, we understand the needs of many businesses that are confronting these issues.

**bioX** is committed to assisting businesses to find the best solution to meet their needs, we have a range of products available to achieve this.



**SS20SS PLATFORM UNIT**

# ABOUT US

## WHAT DO WE DO AND HOW CAN WE HELP YOU?

Offering solutions ideal for both indoor and outdoor use, biOx provides access to advanced global technology that efficiently and effectively suppresses dust and odour in most commercial and industrial applications. By using high pressure low volume nozzles, a very fine fog can be produced that is small enough to be used in even the most sensitive environments.

## WHO ARE OUR CUSTOMERS?

Applications include Waste Transfer Stations, Recycling Plants, Mining Operations, Rock Quarries, Building Demolition, Steel and Slag Facilities, Bulk Handling Operations and Construction Sites.

These solutions are engineered to industrial duty standards for use in the most extreme environments and include a variety of sizes and component options to fit virtually any application.

Our product range includes (1) fixed line fogging systems for single or multiple zones of operation; (2) Spraystream units that can be wall mounted, fixed into position or trailer mounted (they can even come with their own water tanks and generators), or (3) Jetzone systems that can be applied to shredders/crushers, grapple or heavy machinery tools.

JET-ZONE

without suppression

with suppression



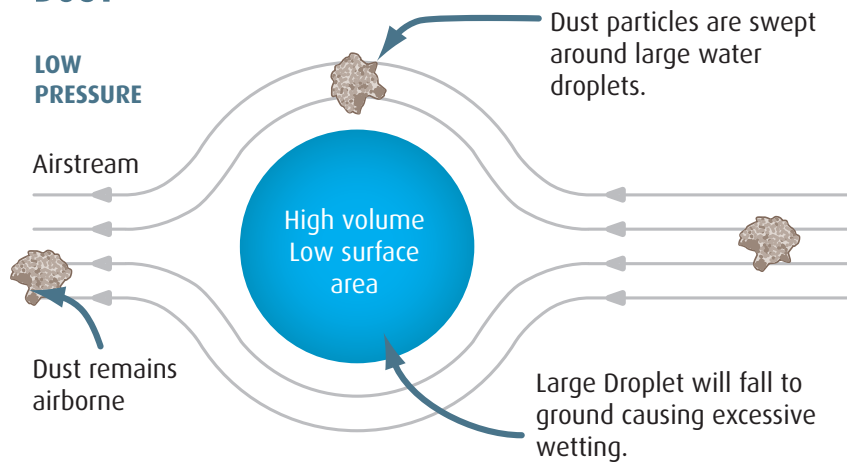


# HOW DOES IT WORK? THE PRINCIPLE BEHIND OUR SOLUTIONS

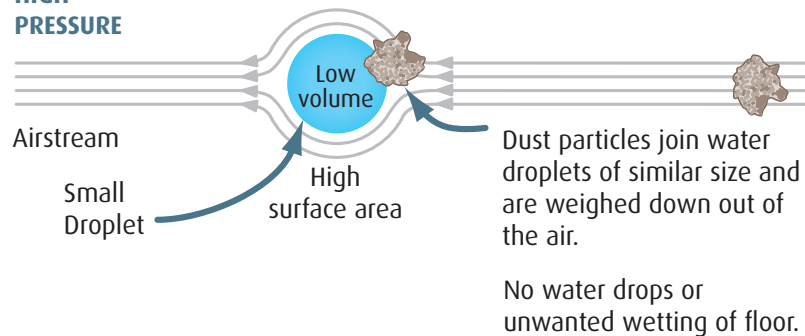
Our solutions generate a consistent stream of micro-rain to agglomerate airborne particles and prevent the escape of fugitive dust. We can provide effective control of airborne pollutants at industrial locations where dust is being generated through stockpiling, breaking, handling of bulk solids; or odours from the degradation of biological waste.

## DUST

### LOW PRESSURE

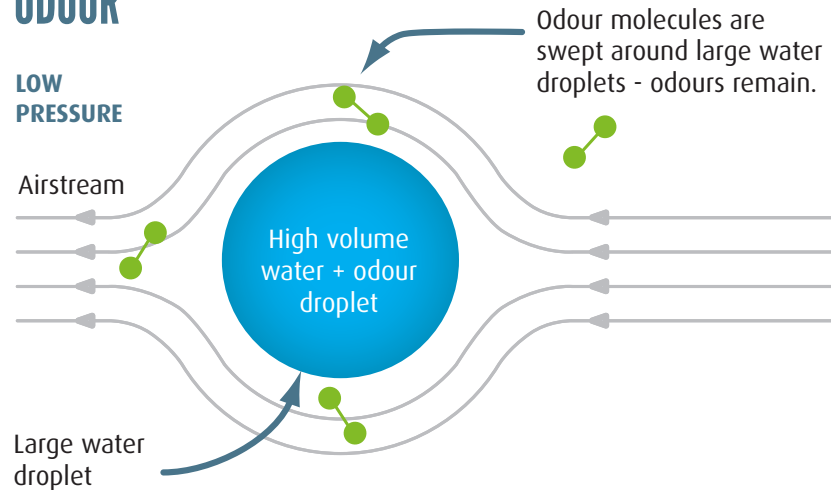


### HIGH PRESSURE

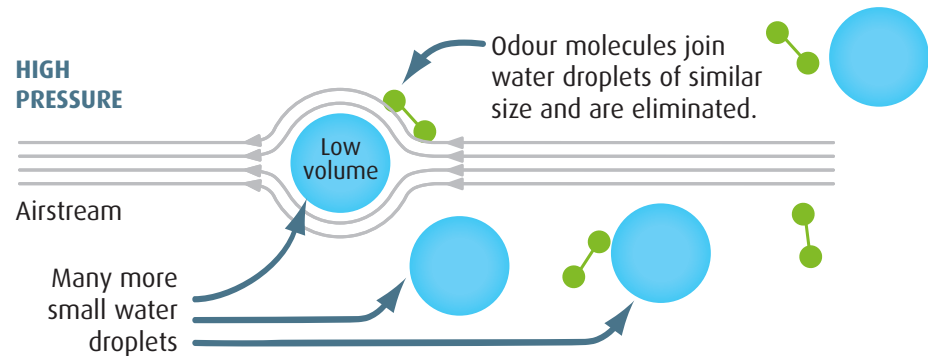


## ODOUR\*

### LOW PRESSURE



### HIGH PRESSURE



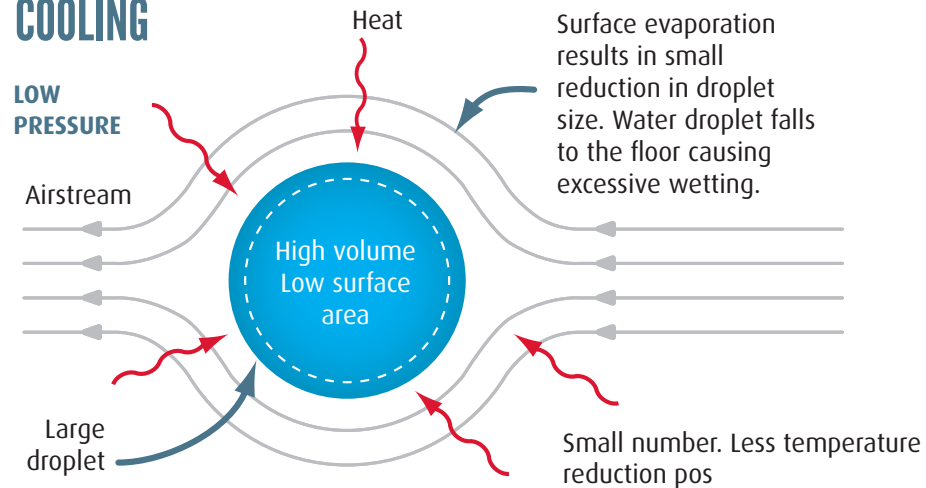
= More opportunity to eliminate odours

*\* Plus water oxidising agents and fragrances can be added when strong odours require elimination.*

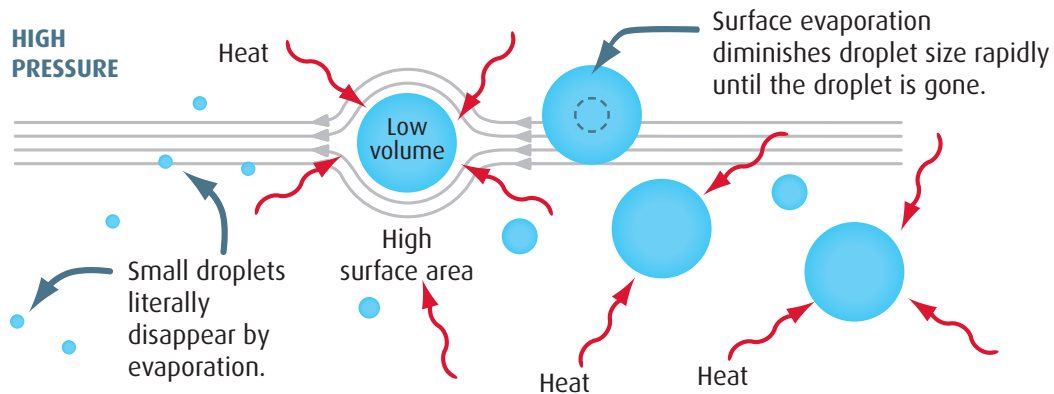
**High Pressure:** Increasing pressure reduces water volume requirements while increasing the number of droplets. Smaller droplets create a greater droplet surface area while decreasing the volume of water used.

## COOLING

### LOW PRESSURE



### HIGH PRESSURE



**SPRAYSTREAM CANNONS**

# OUR PRODUCTS

## SPRAYSTREAM CANNONS

Spraystream cannons are our world class signature product, offering both high pressure (80/100 bar) and medium pressure (20bar) solutions. These are exceptionally high quality units, maximising efficiency and reliability. We have the largest range of off the shelf units, but can also tailor any product design to meet your needs.

The Spraystream cannons generate small water droplets at one end of a aero-dynamically designed composite cone; at the other, a high-powered fan accelerates air to carry the water droplets anywhere from 10 to 70m from the cannon.

The high-pressure CAT pumps create the smallest water droplets possible at 80 bar+ pressure, ensuring that these cannons are ideal at targeting airborne dust. The medium pressure units incorporate Grundfos pumps and operate at 20 bar, creating a slightly heavier droplet that addresses both airborne dust while allowing the droplets also to dampen down ground surfaces, or stockpiles where water carts cannot access.

Depending on your requirements, Spraystream cannons can target point sources of dust generation, or intercept airborne dust as it blows away from site. Situated on the ground, on a telescopic tower, or mounted on the side of a building, these cannons provide a very fine water mist to knock out dust that other equivalent systems cannot do.

Coupled with a dosing system, the fogging cannons are ideal for combating offensive odours onsite efficiently distributing water droplets laced with odour neutralising agents which create millions of opportunities to knock out odours.

## JET-ZONE

Jet-Zone allows high pressure fog to be introduced into very intense and high impact areas of dust generation. Whether inside a shredder or crusher body; at the end of a grab or grapple tool; or the boom of an excavator - Jet-Zone is proven to knock out dust.



**GRAPPLE**



## FIXED LINE

### FIXED LINE

Fixed Line Systems generate a fog at certain points along a section of high-pressure hose, in either indoor or outdoor applications. These systems can be integrated around a particular piece of plant, around a boundary, or overhead to dampen down dust before it moves off site. They can be used to address dust indoors without wetting the ground or equipment around the dust area.

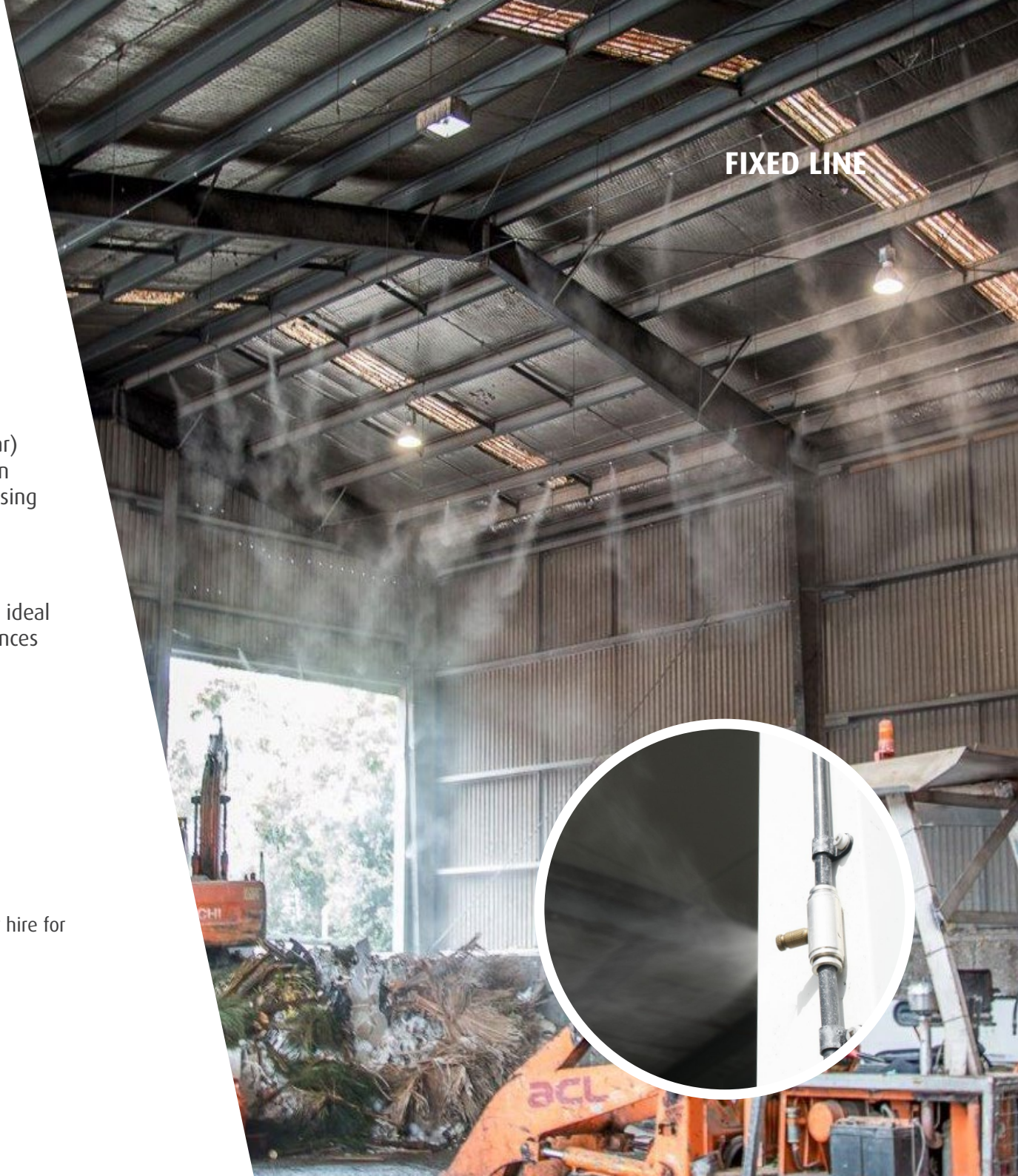
These systems utilise low volume, high pressure (70bar) nozzles, addressing dust at various points of generation such as conveyor transfer or tip off points, without causing belt slippage or excessive wetting.

These systems allow for a uniform distribution of fog compared with a more targeted plume from the Spraystream cannons, which means these systems are ideal for indoor applications in an environment that experiences low to medium dust or odour generation.

## PRODUCTS FOR HIRE / HIRE PURCHASE

We have a range of selected Spraystream units available for hire for short term, long term or seasonal projects.

Indicative pricing is available on request or via our website.





# OUR TEAM

## AUSTRALIA

With our Head Office in QLD, biOx currently has sales staff along the East Coast. We are able to service all Territories throughout Australia through our reputable resellers and partners in the field. We have learnt over the years a winning formula: get these units in front of a client (demo or hire) and they are sure to want one (or more)! The “proof is in the pudding” as it were, and we are confidently offering a world class solution that is reliable, efficient and requires minimal maintenance.

We are clear leaders in the field with our proven technology, and keen to work with businesses to meet the challenges of the hot Australian climate and restrictions on excessive water use.

## NEW ZEALAND

With representatives located in the North and South Islands of New Zealand, the dust, odour and cooling business has provided the basis of a successful business in the smaller but competitive New Zealand Market. As a result of addressing client needs, we have expanded from purely fixed line systems, predominantly indoor; to solutions that suit virtually any situation, indoor/outdoor, mobile or fixed.

Partnering with Spraystream in 2012 our range of solutions expanded even further, with our own proprietary fixed line control systems being in play since 2015.

DISTRIBUTORS OF **SPRAY & STREAM**

### AUSTRALIA

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**AUSTRALIA** VICTORIA, NEW SOUTH WALES **NEW ZEALAND** AUCKLAND, TAURANGA, CHRISTCHURCH

**GRAPPLE  
SPIDER**



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