



BIO-OXYGEN
AUSTRALIA PTY. LIMITED

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‘BIO-OXYGEN’ EQUIPMENT



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‘BIO-OXYGEN’ AIR STERILIZATION & AIR PURIFICATION EQUIPMENT

Model 8000

BIO-OXYGEN - *The Intelligent Air Purifier*

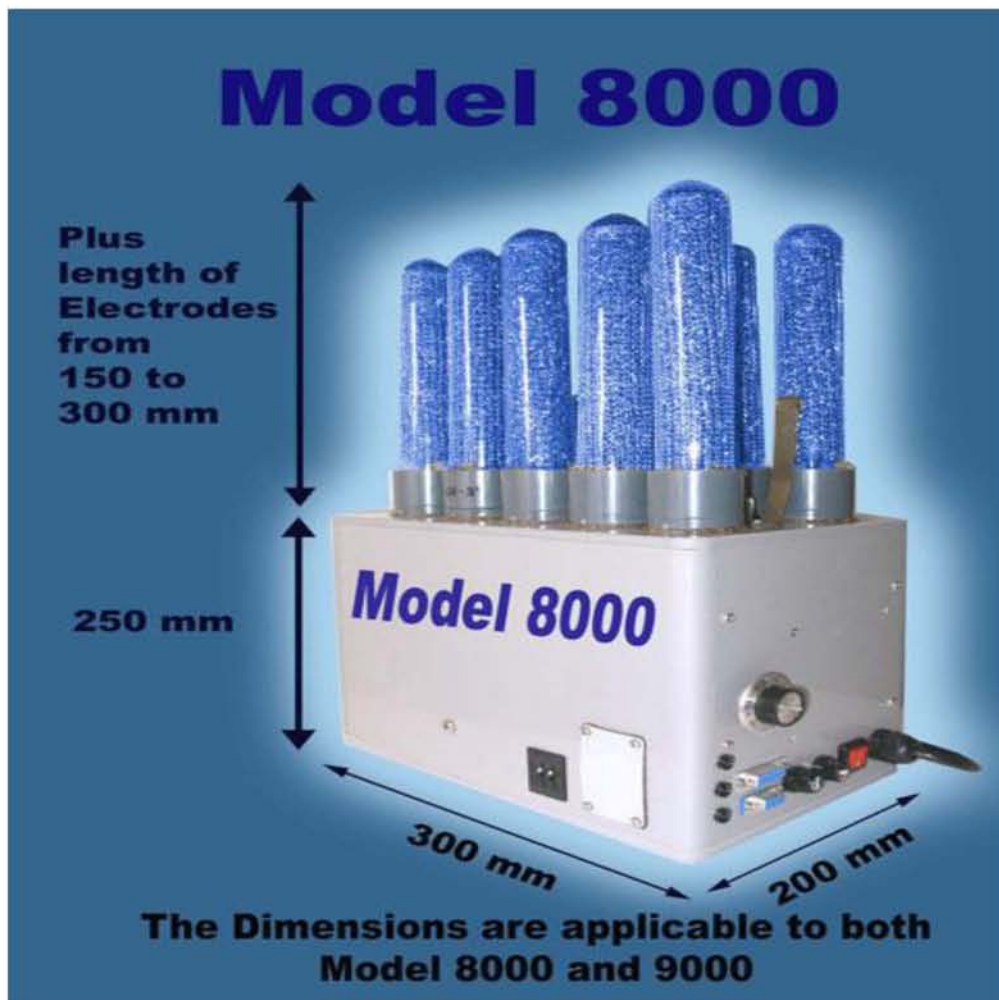
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MODEL 8000

‘Bio-Oxygen’ Electron Generator Model 8000 units are simply placed inside the mixing plenum of an air handling unit where they continually decontaminate, disinfect and deodorize the supply air as the air mixes and flows through the mixing plenum. The Bio-Oxygen units are interlocked with the supply air fan of the air handling unit so that they automatically switch on/off with the supply fan, without fail.

APPLICATION

- (a) for medium to large Central Air Conditioning Systems
- (b) for light to medium Odour Control (Dining Rooms, Pet Shops, Vets etc).



MODEL 8000

- Manual Model (for light Odour Control applications).
- Auto - Manual Model (for Air Conditioning Applications).
- Models with 5 or 10 Electron Tubes

CONTROLS & FEATURES (Manual & Auto Models)

- * On/Off Switch
- * Fuse Holder
- * Circuit Breaker
- * Control Light
- * Rotary Switch to vary the size of the Oxygen Clusters from small to large Clusters in 11 steps.
- * Socket for connection to BMS, CCMS or SCADA for remote monitoring.
- * Socket for External Remote Control Light (up to 3 meters long)
- Twin Dials to vary the quantity of Oxygen Clusters from 00% to 100% in steps of 1%.
- Auto - Manual Selection Switch for either Auto or Manual operation
- Electron Sensor

** Provided on Manual and Auto Model. Other controls and features on Auto Model only.*

ELECTRON TUBES

Bio-Oxygen units are available with sockets for either 5 or 10 electron tubes. The Electron Tubes simply screw into the sockets on the generator. Bio-Oxygen units are light and portable and may simply be unplugged and moved from AHU to AHU or site to site. Electron Tube Sizes: 200 and 300 mm. The tube size depends on available space in the duct or plenum.

POSITIONING & ELECTRICAL WIRING

Bio-Oxygen units may easily be retro-fitted to any existing air conditioning unit without structural changes. An access panel (min. size 500 x 400 mm) in the return air plenum of the air conditioning unit is required so that the Bio-Oxygen unit may be placed and accessed inside the plenum. A power point is required inside the plenum. The power point must be interlocked with the supply air fan of the air handling unit so that the Bio-Oxygen unit switches on/off with the supply fan, without fail.

ELECTRON TUBE EXCHANGE

After the warranty period, the Bio-Oxygen equipment is serviced when the Customer enters into an Electron Tube Exchange Contract with Bio-Oxygen. The Electron Tube Exchange Contract provides for:

- Yearly exchange of Electrode Tubes
- Parts Replacement and Repairs during the year
- Breakdown Service

Without an Electron Tube Exchange Contract, Bio-Oxygen may service the equipment at Bio-Oxygen's sole discretion, without priority, at current service rates and provided that the customer has not tampered with the Bio-Oxygen equipment. The customer is responsible for the on-going replacement of the air filters specified by Bio-Oxygen.

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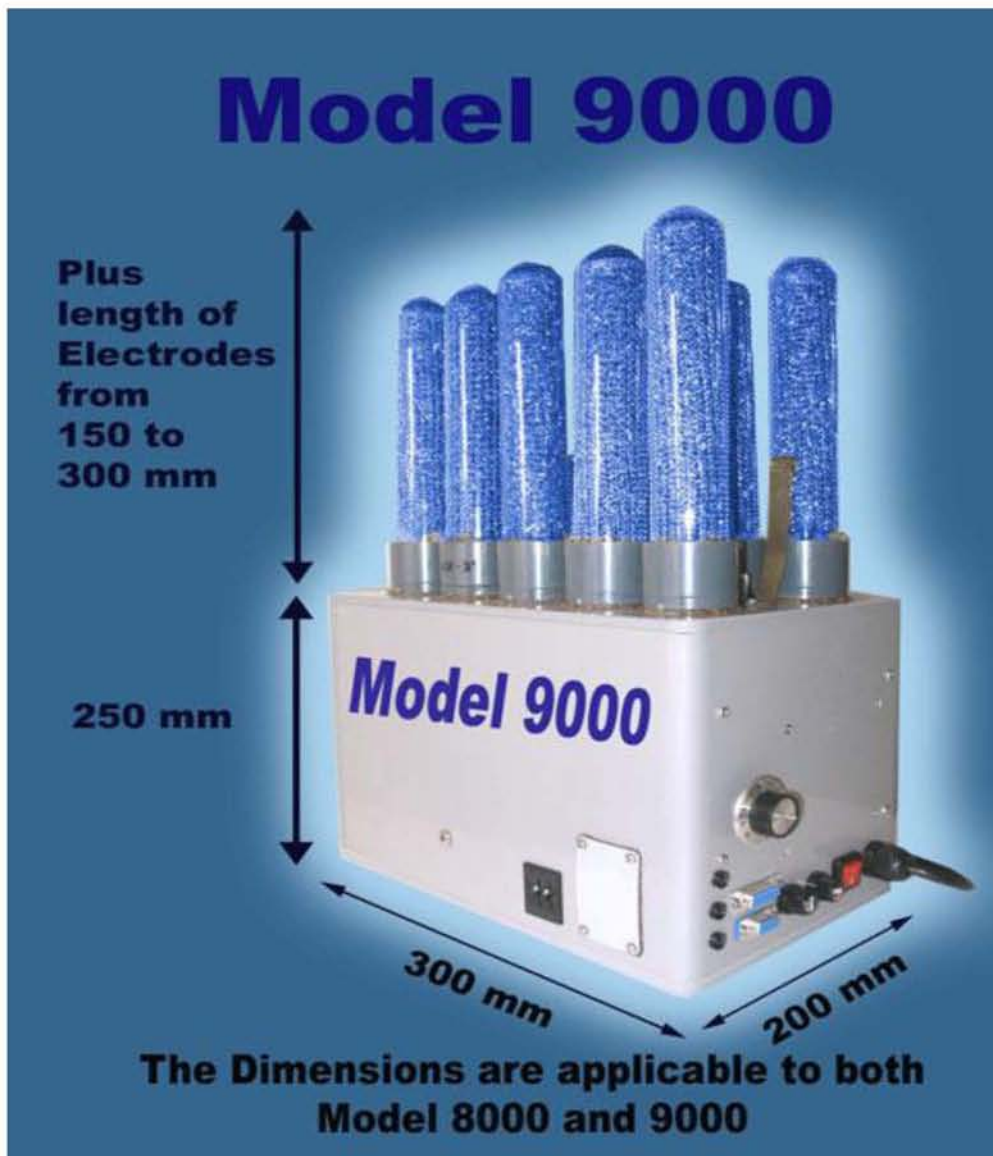
‘BIO-OXYGEN’ ODOUR CONTROL EQUIPMENT

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MODEL 9000

MODEL 9000

‘Bio-Oxygen’ Electron Generator Model 9000 is designed for the removal of Heavy Industrial Odours from Sewerage, Grease Traps, Kitchens Exhaust, Garbage, Manure, Pharmaceuticals and Chemicals etc.



CONTROLS

- On/Off Switch
- Fuse Holder
- Circuit Breaker
- Control Light
- Rotary Switch to vary the size of the Oxygen Clusters from small to large Clusters in 11 steps.
- Socket for connection to SCADA, BMS or CCMS for remote monitoring.
- Socket for External Control Light up to 3 meters long.
- International IEC Input Power Socket

MODEL 9000

Model 9000 is available as Manual Model only with Manual Rotary Dial Control with 11 output settings.

ELECTRON TUBES

Model 9000 is only available with sockets for 10 electron tubes. The Electron Tubes simply screw into the sockets on the electron generator. Bio-Oxygen units are light and portable and may simply be unplugged and moved from site to site. Electron Tube Sizes: 200 and 300 mm. Selected size depends on available space in the duct or plenum.

BIO-OXYGEN FAN BOX

Model 9000 is designed to be accommodated in a Fan Box. A blower sucks ambient air through the fan box and over the Bio-Oxygen Electrode Tubes and blows Oxygen Cluster Air into a Sewerage Pit, Grease Trap, Kitchen Exhaust Duct. The Bio-Oxygen units must be wired to switch on/off together with the ventilation fan, without fail. The Fan Box shall be provided by the customer.

ELECTRON TUBE EXCHANGE CONTRACT

After the warranty period, the Bio-Oxygen units are serviced and the Electron Tubes are exchanged when the Customer enters into an Electron Tube Exchange Contract with Bio-Oxygen. The Contract provides for:

- Yearly exchange of Electrode Tubes
- Parts Replacement and Repairs during year
- Break-down service

Without an Electron Tube Exchange Contract, Bio-Oxygen would only service the equipment at Bio-Oxygen's sole discretion, without priority, at current service rates and provided that the customer has not tampered with the Bio-Oxygen equipment. The customer is responsible for the on-going replacement of the air filters specified by Bio-Oxygen.

BIO-OXYGEN - *The Intelligent Air Purifier*

Bio-Oxygen Model MK2 Odour Control Unit

MK2 incorporating
2 x Model 9000
Oxygen Cluster Units

Oxygen Clusters
to Exhaust Duct



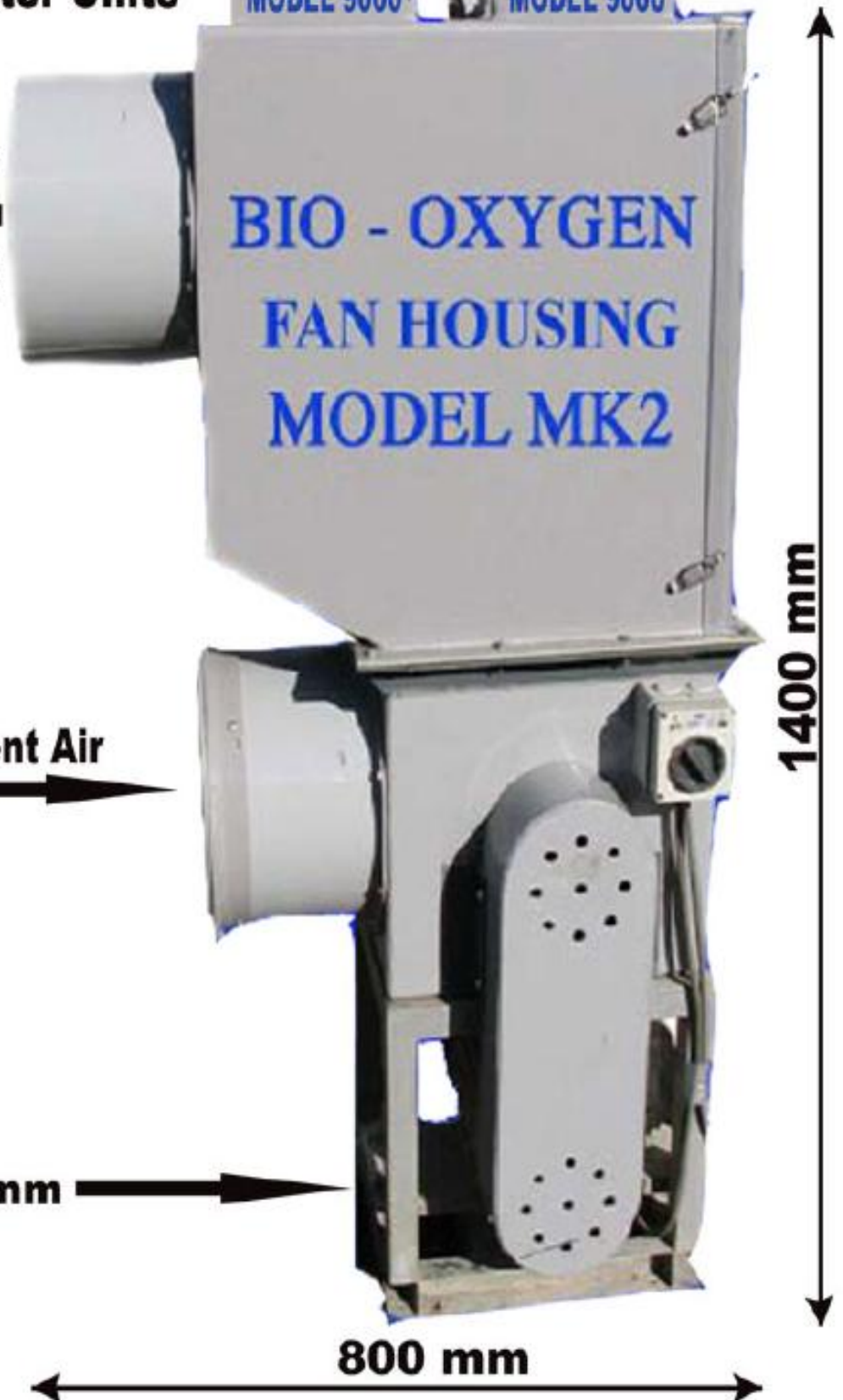
BIO - OXYGEN
FAN HOUSING
MODEL MK2

Clean Ambient Air

Depth 500 mm

1400 mm

800 mm



'BIO-OXYGEN' DROP-IN PLANT ROOM FOR SEWERAGE PUMPING STATIONS



Available from Bio-Oxygen Middle East, Dubai

**Specific Organisms
infecting wet Cooling Coil**

- Tuberculosis
- Cold & Flu Virus
- Staphylococcus Aureus
- Streptococcus
- Legionella
- Meningococcal & Meningitis
- Salmonella
- Escherichia Coli

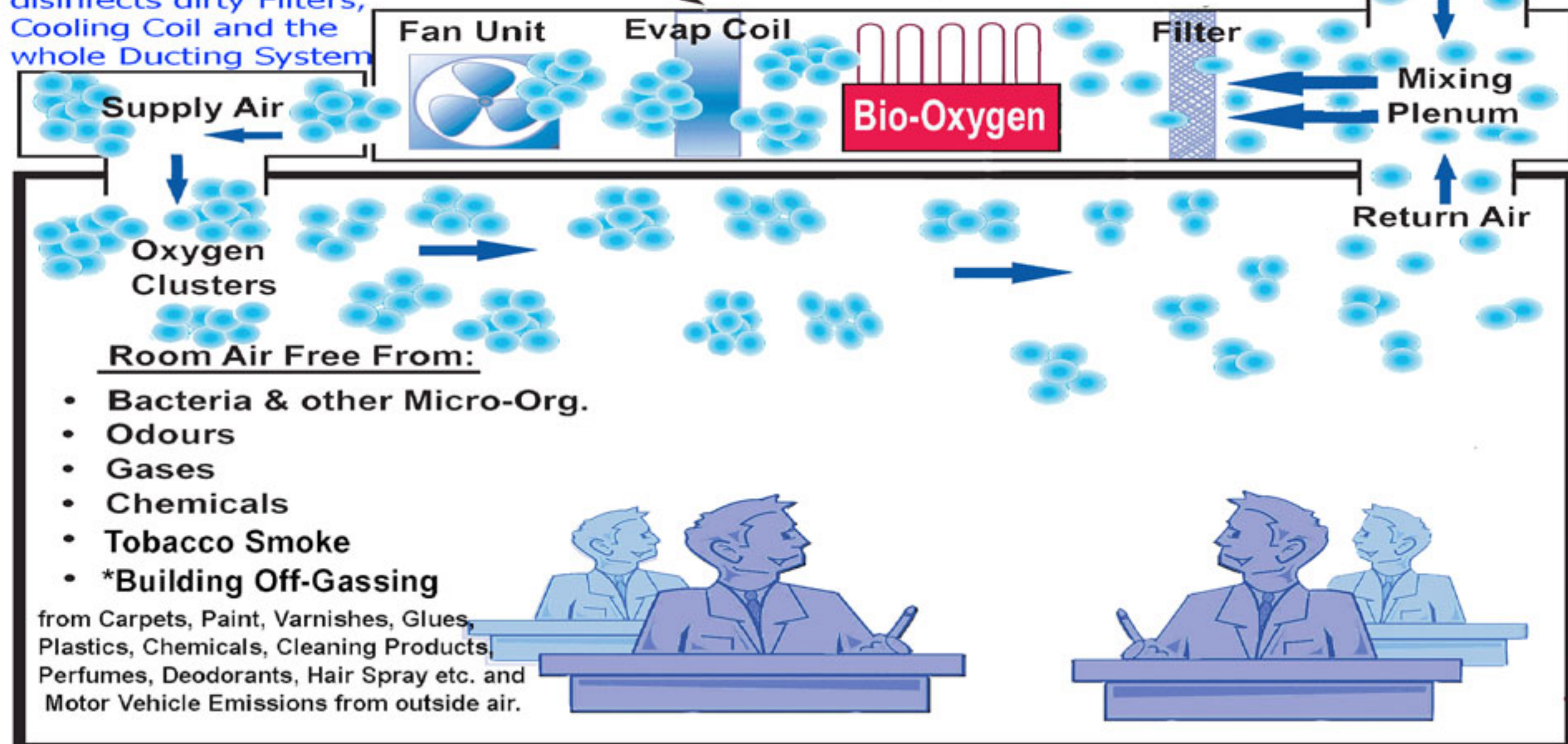
**Mixing Plenum, Evaporator Coil and whole
Ducting System are primary source of
Bacterial, Fungal and Viral contamination**

**Specific Organisms
infecting Dust Filters:**

- Bacillus
- Aspergillus
- Penicillium
- Pseudomonas
- Rhodotorula
- Cladosporium
- Flavobacterium

BIO-OXYGEN SYSTEM

Bio-Oxygen continually
disinfects dirty Filters,
Cooling Coil and the
whole Ducting System



Room Air Free From:

- Bacteria & other Micro-Org.
- Odours
- Gases
- Chemicals
- Tobacco Smoke
- *Building Off-Gassing

from Carpets, Paint, Varnishes, Glues, Plastics, Chemicals, Cleaning Products, Perfumes, Deodorants, Hair Spray etc. and Motor Vehicle Emissions from outside air.



BIO-OXYGEN' may be used for the following Applications

	<u>Purpose</u>	<u>Pollution Level</u>
Abattoirs	Bacteria Control & Extend Shelf Life	4-5
Adhesive Tapes	Adhesive & Plastic Fumes	4
Adhesives	Adhesive & Thinner Fumes	4
Aerosol Containers, Valves &/or Filling	Chemicals & Perfumes	4
Analysts	Bacteria & Chemicals	4
Animal Clinics &/or Hospitals	Bacteria Control & Odour Control	4-5
Animal Welfare Organisations	Bacteria Control & Odour Control	4-5
Apple & Pear Growers	Retard Ripening & Bacteria Control	5-6
Artificial Nails	Chemical Odours	5
Asphalt Products & Supplies	Bitumen & Asphalt Odours	5
Bacteriologists	Bacteria Control	4
Bakers	Bacteria Control	4
Bakers' & Pastrycooks' Supplies	Bacteria Control	4
Beauty Salons	Chemical Odours	4
Beauty Schools	Chemical Odours	4
Biscuits	Bacteria Control	4
Bitumen Products	Bitumen Odours	5
Boxes - Transparent	Plastic Welding Fumes	4-5
Bread Crumb Supplies	Bacteria Control	4
Breweries	Bacteria & Odour Control	4-5
Butchers' & Smallgoods Mfrs' Supplies	Bacteria Control	3-4
Butchers - W'sale	Bacteria Control	4-5
Cakes & Pastries W'sale	Bacteria Control	4
Can Mfrs	Adhesive & Tinner Fumes	4
Casinos	Cigarette Smoke & Odours	3-4
Cat Boarding &/or Breeding	Cat Odours	5
Catering - Industrial & Commercial	Cig.Smoke & Coolroom Sterilization	4
Celluloid & Cellulose Products	Celluloid & Cellulose Odours	4-5
Cheese &/or Cheese Products	Bacteria Control	4-5
Chemical Supplies	Chemical Fumes & Vapours	5
Chemicals - Agricultural	Chemical Fumes & Vapours	5

BIO-OXYGEN' Application Guide

	<u>Purpose</u>	Pollution <u>Level</u>
Chemicals - Analytical	Chemical Fumes & Vapours	5
Chemicals - Industrial	Chemical Fumes & Vapours	5
Child Care Centres	Bacteria Control & Air Quality	2
Child Health Centres	Bacteria Control & Air Quality	2
Chocolate & Cocoa	Bacteria Control & Chocolate Odours	4-5
Clubs - Australian Rules Football	Cigarette Smoke & Air Quality	4-5
Clubs - Baseball	Cigarette Smoke & Air Quality	4-5
Clubs - Bowling	Cigarette Smoke & Air Quality	4-5
Clubs - Community Services	Cigarette Smoke & Air Quality	4-5
Clubs - Golf	Cigarette Smoke & Air Quality	4-5
Clubs - Life Saving &/or Surfing	Cigarette Smoke & Air Quality	4-5
Clubs - Rowing	Cigarette Smoke & Air Quality	4-5
Clubs - Rugby League	Cigarette Smoke & Air Quality	4-5
Clubs - Rugby Union	Cigarette Smoke & Air Quality	4-5
Clubs - Senior Citizens	Cigarette Smoke & Air Quality	4-5
Clubs - Soccer	Cigarette Smoke & Air Quality	4-5
Clubs - Social & General	Cigarette Smoke & Air Quality	4-5
Clubs - Sporting - Miscellaneous	Cigarette Smoke & Air Quality	4-5
Clubs - Yacht	Cigarette Smoke & Air Quality	4-5
Coating - Decorative	Plastic & Chemical Fumes	4-5
Coating - Protective	Plastic & Chemical Fumes	4-5
Coffee - W'sale	Coffee Odours & Bacteria Control	4-5
Cold Storage	Bacteria Control & Extend Shelf Life	5
Colours & Pigments	Odours from Pigments & Colours	4-5
Community Centres	Cigarette Smoke & Air Quality	3
Community Health Centres & Services	Bacteria Control & Air Quality	2
Confectionery - W'sale & Mfrs	Bacteria Control	4-5
Convention & Conference Venues	Cigarette Smoke & Air Quality	4
Coolroom Builders &/or Designers	Bacteria Control & Extend Shelf Life	4
Cork Merchants	Cork Odours	4-5
Cosmetics - W'salers & Mfrs	Bacteria Control & Cosmetic Odours	4-5
Cremation	Coolroom Sterilization & Odour Control	5
Dairy Products - W'salers & Mfrs	Bacteria Control & Extend Shelf Life	5
Disinfectants	Disinfectant Odours	4-5
Dog Boarding Kennels	Odour Control	4-5
Dog Breeders	Odour Control	4-5
Dried &/or Glace Fruits	Bacteria Control & Extend Shelf Life	4
Dry Cleaners	Thinner Fumes	5

BIO-OXYGEN' Application Guide

	<u>Purpose</u>	<u>Pollution Level</u>
Dyers	Dye Odours	4-5
Dyes & Dystuffs	Dye Odours	4-5
Effluent Treatment Services	Effluent Odours	Sewerage
Egg Merchants	Bacteria Control & Extend Shelf Life	5
Essences, Flavours & Ingredients	Odour Control	5-6
Fertilizers	Odour Control	Sewerage
Film Protection Treatment	Celluloid Odours & Extend Film Life	5
Fireworks	Gunpowder Odours	5
Fish & Seafood Production	Bacteria Control & Fish Odours	5
Fish & Seafood - W'sale	Bacteria Control & Fish Odours	5
Fishermen	Bacteria Control & Fish Odours	5
Fishing Bait	Bacteria Control & Fish Odours	5
Floor Treatment Products	Chemical Fumes & Vapours	5
Florists - W'sale	Bacteria Control & Extend Shelf Life	3-4
Flour W'salers & Mfrs	Bacteria Control	3-4
Foam Fabricators & Processors	Plastic Fumes	4-5
Food Delicacies	Bacteria Control	4-5
Food Products - Mfrs & Processors	Bacteria Control & Extend Shelf Life	4-5
Fozen Foods - W'salers & Mfrs	Bacteria Control	4-5
Fruit & Berry Growers	Retard Ripening & Bacteria Control	4-5
Fruit Juice Merchants & Processors	Bacteria Control	4-5
Fruit, Vegetable &/or Grain Exporters	Retard Ripening & Bacteria Control	4-5
Fruit & Vegetable Packing &/or Packs	Retard Ripening & Bacteria Control	5-6
Fruit & Vegetable - W'sale	Retard Ripening & Bacteria Control	5-6
Function Centres & Organizers	Cigarette Smoke & Air Quality	4-5
Funeral Directors	Coolroom Sterilization & Odour Con	4-5
Game Farmers &/or Dealers	Bacteria Control & Extend Shelf Life	4-5
Gelatine W'salers & Mfrs	Bacteria Control & Extend Shelf Life	4-5
Glucose W'salers & Mfrs	Bacteria Control & Extend Shelf Life	4
Grain & Produce - W'sale	Bacteria & Mould Control	5
Grease Trap Cleaning Services	Odour Control	Sewerage
Hair Care Products	Chemical Odours	6
Hairdressers	Chemical Odours	5
Hairdressing Colleges	Chemical Odours	5
Ham & Bacon Curers	Bacteria Control & Extend Shelf Life	5
Health & Fitness Centres & Services	Improve Air Quality	2
Health Foods & Products	Bacteria Control & Extend Shelf Life	3-4
Hide & Skin Merchants	Odour Control	6

BIO-OXYGEN' Application Guide

	<u>Purpose</u>	Pollution <u>Level</u>
Homes & Hostels	Bacteria, Epidemic & Odour Control	3-4
Hospitals - Private	Bacteria, Epidemic & Odour Control	2
Hospitals - Public	Bacteria, Epidemic & Odour Control	2
Hotels	Cigarette Smoke & Air Quality	3-4
Ice Cream Cones & Wafers	Bacteria Control	4-5
Ice Cream - W'salers & Mfrs	Bacteria Control	4-5
Inks - W'salers & Mfrs	Odour Control	5
Insecticides, Herbicides & Fungicides	Odour Control	5
Insulation Material	Odour Control	5
Jams & Preserves - W'salers & Mfrs	Coolroom Sterilization	4
Karaoke	Cigarette Smoke & Air Quality	4
Kindergartens &/or Pre-Schools	Bacteria Control & Air Quality	2
Kosher Products	Bacteria Control & Extend Shelf Life	4-5
Labels - Self-Adhesive	Adhesive & Thinner Odours	4-5
Lacquers - W'salers & Mfrs	Lacquer Odours	4-5
Laminates &/or Laminated Panels	Plastic & Chemical Odours	4-5
Laminating Services	Plastic & Chemical Odours	4-5
Laundries	Laundry Odours	4-5
Leather Merchants	Leather Odours	5-6
Libraries - Private	Musty Odours & Extend Book Life	2
Libraries - Public	Musty Odours & Extend Book Life	2
Lime	Lime Odours	5
Malt Extract W'salers & Mfrs	Malt Odours	4-5
Maltsters	Malt Odours	4-5
Manicurists	Chemical Odours	5-6
Margarine	Bacteria Control & Extend Shelf Life	4-5
Meat & Bone Meal Rendering Plants	Meat & Bone Meal Odours	On Applic.
Meat Exporting &/or Packing	Bacteria Control & Extend Shelf Life	5-6
Medical Practitioners	Bacteria & Disease Control	2
Motor Vehicle Number Plates	Ink & Thinner Odours	5
Mouldings - Plastic &/or Wood	Plastic, Chemical & Adhesive Odours	5
Museums	Musty Odours	2-3
Nappy Services	Odour Control	2
Nightclubs & Discotheques	Cigarette Smoke & Air Quality	4
Nuts - Edible &/or Products	Bacteria Control & Extend Shelf Life	4
Offices	Air Quality	1
Oils - Edible	Bacteria Control	4
Organizations - Ex-Service & Service	Cigarette Smoke & Air Quality	4

BIO-OXYGEN' Application Guide

	<u>Purpose</u>	Pollution <u>Level</u>
Oyster Suppliers &/or Farmers	Bacteria Control & Extend Shelf Life	5-6
Paint - Automotive	Paint & Thinner Odours	5-6
Paint W'salers & Mfrs	Paint & Thinner Odours	5-6
Panel Beaters &/or Painters	Paint & Thinner Odours	5-6
Paper Coating Services	Plastic & Chemical Odours	5
Paper & Plastic Containers	Plastic & Chemical Odours	5
Pasta Products &/or Equipment	Bacteria Control & Extend Shelf Life	4-5
Pathology Laboratories	Bacteria Control & Disease Control	4
Paving - Asphalt &/or Bitumen	Bitumen & Asphalt Odours	5-6
Perfumes & Toiletries	Perfumes & Toiletries Odours	5-6
Pet Care Services	Bacteria & Odour Control	5-6
Pet Foods &/or Supplies	Bacteria Control & Extend Shelf Life	4-5
Pet Shops	Odour Control	5
Pharmaceutical Products Mfrs.	Bacteria Control & Improve Hygiene	4
Photo Litographers	Ink & Thinner Odours	5-6
Photographic Processing Services	Chemical Fumes	5-6
Pies, Pastries & Sausage Rolls	Bacteria Control & Extend Shelf Life	4
Pig Breeders &/or Dealers	Odour Control	5-6
Pipe Lining & Coating	Odour Control	5
Pipes & Fittings - Plastic	Plastic & Chemical Odours	4-5
Plastic Bags	Plastic & Chemical Odours	4-5
Plastics - Coaters	Plastic & Chemical Odours	4-5
Plastics - Extruders	Plastic & Chemical Odours	4-5
Plastics - Fabricators	Plastic & Chemical Odours	4-5
Plastics - Moulders	Plastic & Chemical Odours	4-5
Plastics - Products - W'salers & Mfrs	Plastic & Chemical Odours	4-5
Polishes, Staines & White Cleaners	Paint, Varnish & Thinner Odours	5-6
Polyethelene Products	Plastic & Chemical Odours	4-5
Polystyrene Products	Plastic & Chemical Odours	5
Potato Chips &/or Crisps	Extend Shelf Life of Raw Potatoes	4
Poultry Farmers & Dealers	Bacteria & Disease Control	5-6
Poultry Processing & Supplies	Bacteria Control & Extend Shelf Life	5-6
Powder Coating Services	Plastic & Chemical Odours	5
Pressure Sensitive Materials	Plastic & Chemical Odours	4-5
Printed Circuits	Chemical Fumes	4-5
Printers - Continuous Stationery	Ink & Thinner Odours	4-5
Printers - General	Ink & Thinner Odours	4-5
Printers - Lithographic	Ink & Thinner Odours	4-5

BIO-OXYGEN' Application Guide

	<u>Purpose</u>	Pollution <u>Level</u>
Printers - Plastic &/or Flexographic	Ink & Thinner Odours	4-5
Printing Ink	Ink & Thinner Odours	5-6
Putty W'salers & Mfrs	Putty Odours	5
Rendering Plants	Meat & Bone Meal Odours	on Applic.
Resins &/or Resin Products	Plastic & Chemical Odours	5
Retirement Villages	Bacteria, Odour & Epidemics	2
Rubber Products - W'salers &/or Mfrs	Rubber Odours	4-5
Rubbish Removers	Odour Control	5-6
Sanitary Disposal Services	Odour Control	5
Schools - Boys'	Epidemic Prevention & Air Quality	1
Schools - Co-Educational	Epidemic Prevention & Air Quality	1
Schools - General	Epidemic Prevention & Air Quality	1
Schools - Girls'	Epidemic Prevention & Air Quality	1
Schools - Theological	Epidemic Prevention & Air Quality	1
Screen Printers	Ink & Thinner Odours	5
Sealing Compounds &/or Services	Chemical Fumes & Vapours	5
Seedmen	Bacteria Control & Extend Shelf Life	4-5
Septic Tank Cleaning Services	Odour Control	Sewerage
Sewage & Waste Water Treatment	Odour Control	Sewerage
Sheepskin Products	Odour Control	5-6
Ship Providores	Bacteria Control & Extend Shelf Life	4
Shopping Centres	Air Quality & Odour Control	2-2
Silicone Supplies & Products	Silicone Odours	5
Smallgoods W'salers & Mfrs	Bacteria Control & Extend Shelf Life	5
Soaps &/or Detergents	Soap & Detergent Odours	5
Solvents	Solvent Fumes & Vapours	5-6
Spices	Spice Odours	5
Sporting Surfaces - Synthetic	Chemical Fumes & Vapours	5
Spray Painting Services	Paint, Varnish & Thinner Odours	on Applic.
Starch W'salers &/or Mfrs	Bacteria Control	5-6
Stockfeeds & Supplements	Bacteria & Mould Control	4-5
TAFE Colleges	Epidemic Prevention & Air Quality	1
Tallow Merchants	Odour Control	5
Tanneries	Odour Control	5-6
Tenpin Bowling	Cigarette Smoke & Air Quality	2
Tyres - Retreading, Recapping	Rubber Odours	5
Universities & Tertiary Colleges	Epidemic Prevention & Air Quality	1

BIO-OXYGEN' Application Guide

	<u>Purpose</u>	Pollution <u>Level</u>
Vegetable Growers	Bacteria Control & Ripening Control	5
Veterinary Laboratories	Bacteria Control & Improve Hygiene	4
Veterinary Surgeons	Bacteria Control & Improve Hygiene	3
Vinyl Welding & Repairs	Vinyl Welding Fumes	5
Vitamin Products	Bacteria Control & Extend Shelf Life	4
Waste Reduction Services	Odour Control	5-6
Waste Water & Sewage Treatment	Waste Water & Sewage Odours	Sewerage
Wedding Reception Venues	Cigarette Smoke & Air Quality	4
Wineries &/or Vineyards	Bacteria Control	4-5
Yeast W'salers & Mfrs	Bacteria Control	4-5

