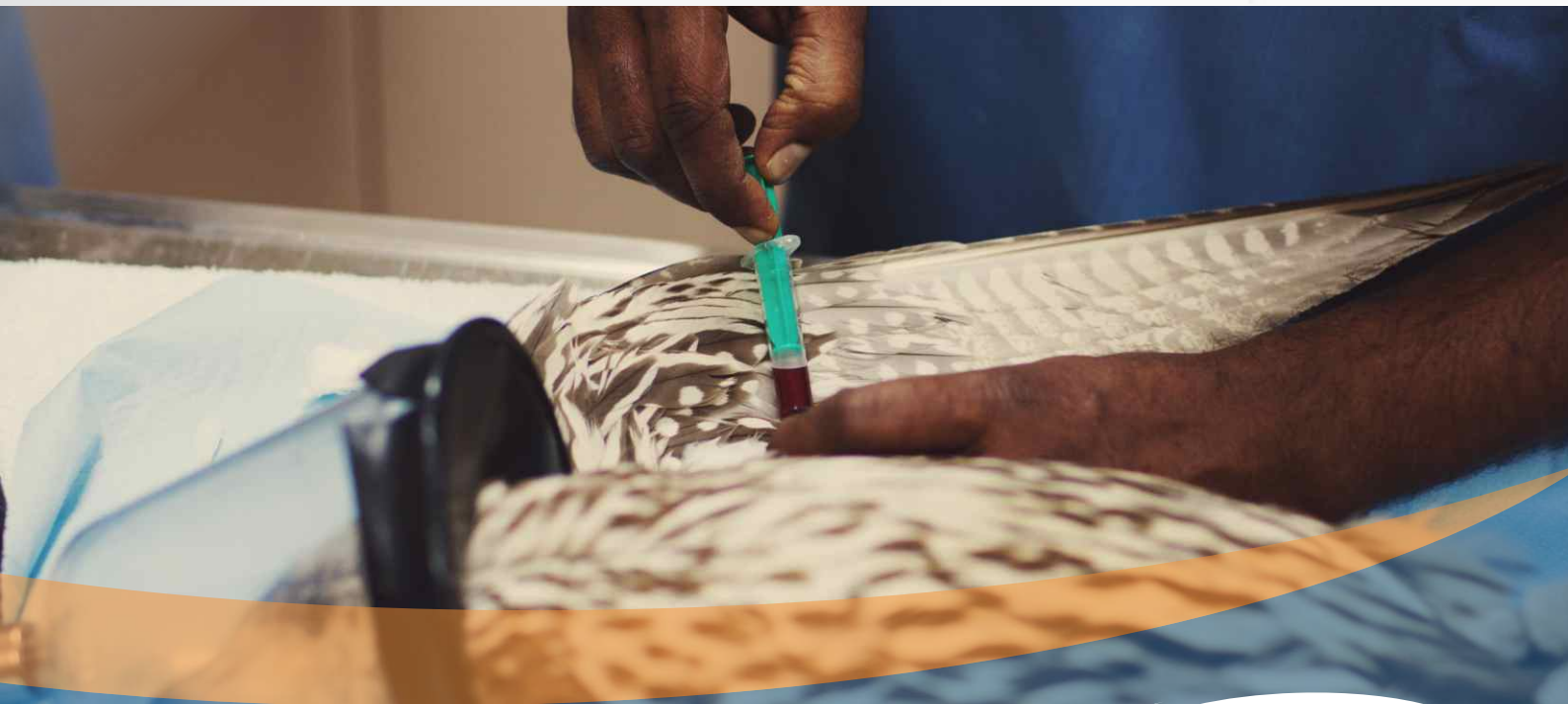


## CATALOGUE





## **ABOUT EUROVETS**

### **EUROVETS IS YOUR COMPLETE VETERINARY SUPPLY & SUPPORT SOLUTION**

For the decade, Eurovets Veterinary Suppliers has been a trusted name for veterinary and animal health products, proudly serving businesses and clinics throughout emirates and the wider Gulf region. We offer a comprehensive range of premium products at highly competitive prices, for both small and large animal practices. Our product scope covers diagnostics, nutritionals, medicines, feed, equipment, consumables and more.

Everything we do is intended to improve animal health in our communities, through connecting animals with premium brands and services.



## **ABOUT ADVANCED ANAESTHESIA SPECIALISTS (AAS)**

For over 15 years Advanced Anaesthesia Specialists (AAS) has been developing an international reputation with novel solutions for long standing problems in veterinary anaesthesia. It's Darvall branded products focus on improving anaesthesia efficiency, reducing hypothermia and improving waste gas management for clinical, research and wildlife applications. They are the No.1 supplier of equipment to the veterinary industry in Australia.

[www.aamedical.com.au](http://www.aamedical.com.au)



# Making Anaesthesia Easier

## The AAS Stinger™\* - Predictable & Reliable



Storage Basket  
(optional)

### Deluxe

For all animals  
- fully mobile  
space-saver with  
complete range of  
breathing circuits plus  
IV pole assembly

Waste Gas  
Charcoal  
Scavenger &  
Holder  
(optional)

### Standardised -

Predictable anaesthesia across the hospital

### Systematised -

AAS "Guide for Use" makes staff training a breeze

### Methodical -

Reduced risk of patient morbidity or mortality

### Simplified -

Easy to set up, pressure test, use & maintain

### Expert Support -

Over 15 years of AAS clinical & technical support!



### Table Top or Wall-Mount

For all animals - table top  
machine with complete range  
of breathing circuits



### Wall-Mount Bracket (optional)

350 mm -180° swing arm



### Streamline

For very small animals less  
than 6.5kg using a non-re  
breathing circuit Or  
for Basic Research  
applications using one  
breathing circuit



### O2 Cylinder Holder

For portable oxygen supply

The AAS Stinger Models	Streamline	Table-Top	Deluxe
Instruction Manual	✓	✓	✓
O <sub>2</sub> high pressure supply hose-2m	✓	✓	✓
O <sub>2</sub> flow meter 0-4 lpm	0-1lpm	✓	✓
Darvall vapouriser & filling adapter	✓	✓	✓
Airway pressure gauge	C	✓	✓
O <sub>2</sub> flush & gas outlet	✓	✓	✓
NRB deluxe Bain circuit	✓	✓	✓
ZDS face mask circuit	✓	✓	✓
Darvall breathing canister	C	✓	✓
Darvall smooth-wall circuits: 2 sizes	C	✓	✓
Wall mount assembly	C	C	-
IV Pole assembly	C	C	✓
Wheel base assembly	C	C	✓
O <sub>2</sub> cylinder holder	C	C	C
Waste gas scavenger	C	C	C

✓ = Standard C = Can add

\* Patents granted and pending



# AAS Stinger™ Ultra

Darvall's DVM Iso Precision Vaporiser with 5 year service



Darvall's "Expanded Scale" Flowmeter Low-Flow accuracy, Glows in the dark; works with concentrators



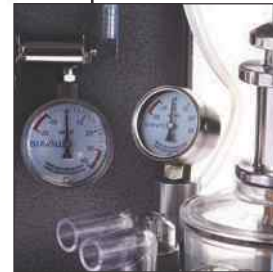
"Ready to Roll" Basket for convenient & immediate storage



Darvall's Heated Breathing Circuits - immediate warming from the first breath



Darvall Pressure Gauges for accuracy & safety



Darvall's Stingray Absorber is mounted on a moveable Swing-Arm



\* 4 International Patents granted or applied for

## Breakthrough Solution for Small Animal Anaesthesia

Novel flowmeter, vaporiser, Stingray™ absorber & heated breathing circuits

Rapid "1 minute" response to vaporiser changes at 15ml/kg flows (200ml/min min.)

Improve anaesthesia outcome: warmer animals, faster recoveries & save nursing time

Use Stinger™ Ultra on 100 animals < 14kg each month & save up to \$4,000/month!

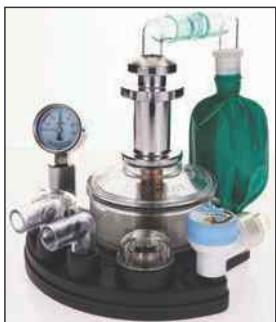
Made By Vets For Vets following 10 years of R&D! \*

# The DVM-Iso Precision Vaporiser



Over 80% of anaesthetised animals are smaller than 16kg. Darvall's innovative breathing systems deliver predictable anaesthesia at fresh gas flows of less than 1 L/min saving money, reducing hypothermia and lowering environmental pollution. The new Darvall DVM Iso vapouriser is unique, being the only vapouriser world-wide calibrated at 2 L/min to accurately perform at low gas flows with a precision no-leak control valve that reduces WAG pollution.

## Darvall Solutions for Small Animal Anaesthesia

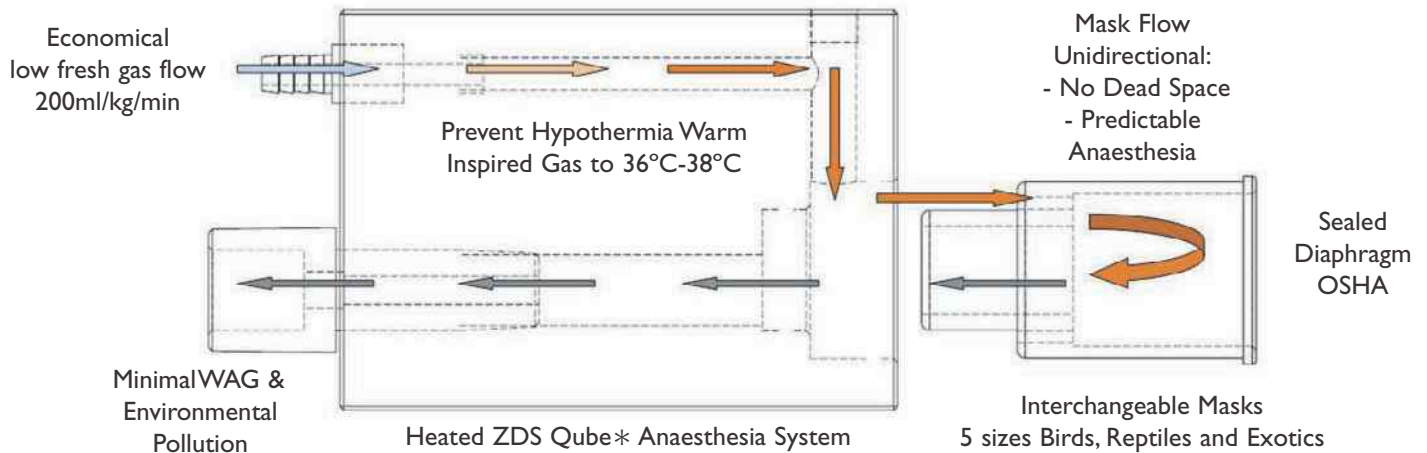


Darvall Stingray: rapid response at low gas flows

- Low Resistance, Low Volume Smooth-Wall Anaesthesia Breathing Circuits
- Zero Dead Space ZDS Face Masks & Heated Qubes for exotics, birds, reptiles & rodents
- Low-Flow, Rapid Response Circle Absorber System for animals 5-80kg
- Precision Vapourisers for accurate performance at low gas flows
- Darvall committed to reducing occupational and atmospheric pollution

# DARVALL Zero Dead Space "ZDS" Face Masks\*

## A Totally NEW Solution for Exotics, Birds & Reptiles



Darvall's ZDS Qube system\* with unidirectional gas flow and sealed face masks delivers low flow, rapid response predictable anaesthesia to exotics from a stable aluminum block. The New Heated ZDS Qube warms inspired gas to 41.5°C to reduce heat loss during anaesthesia

The patented Darvall ZDS face mask system, developed from over 10 years of research, overcomes all of the problems of the older very small patient anaesthesia mask systems. ZDS masks use innovative uni-directional gas flow which eliminates the mask dead space, so prevents rebreathing of CO<sub>2</sub> and provides very predictable delivery of anaesthetic gas to the animal's nose (see diagram). Fresh gas flows as low as 200 ml/kg/min. deliver stable anaesthesia with rapid response to changes in vapouriser settings (typically in 2 to 3 breaths). The ZDS Qube has interchangeable masks with soft diaphragms designed to seal on the nose of birds, reptiles, rabbits, rodents and exotics of all sizes which eliminates occupational waste gas pollution to the working environment. Because the mask system is sealed, the fresh anaesthetic and oxygen gas flow (200 ml/kg/min) flushes the expired breath containing CO<sub>2</sub> out into the waste gas system.

Darvall's heated ZDS Qube provides a totally new solution to hypothermia in these very small patients by delivering warm inspired gas to the animal's nose. This system incorporates animal and Qube temperature monitoring, providing closed loop feedback. There is computerised data acquisition capability via USB for display and record keeping.

## DARVALL Warms from Within™

### Heated ZDS Qube\* solving hypothermia in Exotics



- Controlled heating to 41.5°C
- Animal temperature monitoring with closed-loop feedback
- For Pups, Kittens, Rabbits, Rodents, Reptiles & Birds
- Stable, predictable anaesthesia



#### Starter Kit for Heated ZDS Qube for Exotics\*

- |                                  |                                       |
|----------------------------------|---------------------------------------|
| ■ Warm Inspired Air Control Unit | ■ Small esophageal/rectal temp. probe |
| ■ Heated ZDS Qube                | ■ Qube temp. monitored                |
| ■ Exotics mask kit               | ■ Closed loop feedback from animal    |

ZDS Qube Exotics Mask Kit includes: larger bird/rabbit mask; small rodent/reptile mask; & ET tube connector.

\* Patents granted and pending



Patented Darvall Zero Dead Space "ZDS" Face Masks and ZDS Qubes solve the long standing problems created by traditional "bi-directional" face masks connected to anaesthesia breathing circuits. ZDS face masks have uni-directional gas flow which eliminates dead space, providing predictable, low-flow delivery of anaesthesia for pups, kittens, rabbits, rodents, reptiles, exotics & birds.

- Fast & predictable anaesthesia
- Low fresh gas flows - 200ml/kg/min
- Clear polycarbonate for visibility
- Diaphragms to suit all animal sizes
- Excellent for O<sub>2</sub> therapy



2 sizes of diaphragms available

\* Patents granted and pending



### Features:

- Unidirectional flow Zero Dead Space design\* delivers gas effectively for reliable anaesthesia
- Masks with sealed diaphragms assures accurate delivery and prevents workplace anaesthetic pollution (OH&S)
- Low-Flo ZDS system reduces fresh gas flow by 80-90% to 200ml/kg/min: \$AVE & environmentally friendly
- Solid, heavy aluminum cube design for stability
- Mask height changes with Qube rotation



ZDS Qube Rodent Mask Kit includes 3 sizes of masks with diaphragms for Rats & Mice



Stable Aluminum Qube [0.45kg (1lb)] with optional heating; Mask height adjusts by rotating the Qube

# Minimal Stress Anaesthesia

**DAR✓ALL**

## Sealed Induction Chambers

- Sealed - for faster inductions
- OH&S: no waste anaesthetic gas leakage
- Secure - one piece molded base
- Easy Access Port reduces WAG pollution when removing small animals
- Simple anaesthetic machine connection
- Easy to clean - no joints



**DAR✓ALL**

## Clear-View Vet Laryngoscopes\*

- Set of 5 Vet blades & handle in a presentation case
- Designed for animals
- 250mm blade for large dogs
- Optional 300mm XL blade
- Excellent visibility



AAS 'Clearview'  
Laryngoscope for right hand  
intubation - note light on  
left side of blade  
(right side of blade also  
available)



- Cool LED "long-life" light
- Reliable - no switches
- Sealed electronics
- Efficient - low battery use

### Making Work Easier

#### Anaesthesia Guide

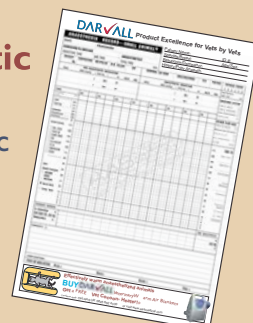
- Monitoring: O<sub>2</sub>, CO<sub>2</sub> & BP
- Hypothermia
- Machine Testing
- WAG management

#### Check List Cards

- Machine Set-Up
- CPR
- Critical Situation:  
- O<sub>2</sub> & CO<sub>2</sub>  
- HR & BP

#### Anaesthetic records

- Systematic
- Simple
- Safety





# DARVALL Smooth-Wall Circuits

## Efficient & Responsive Anaesthesia Breathing Systems



Corrugated 22mm hose compared to 12mm & 16mm ID smooth wall hose



22mm molded end connects to circle system



Stress relief protects hose at molded junction



22mm molded end connects to pediatric Y piece

**Reduce breathing hose volume by up to 70%**  
**Use circle systems with smaller animals & Save \$**

- Easy to clean & dries fast!
- Molded ends - reliable connection
- **Circle Systems** reduce heat-loss
- **Economical** low gas flows

### SWT Sizes for Anaesthesia of Dogs & Cats

	Weight kg	Tubing ID mm	Length m
Medium/Large Dog	22 +	16	1.6
Cat/Small Dog*	2 - 22	12	1.6

\*use with Darvall Low Volume CO<sub>2</sub> Absorber

## Smooth Wall Tubing: Low Resistance, Low Volume

### You don't need 22mm corrugated hose to anaesthetise dogs & cats

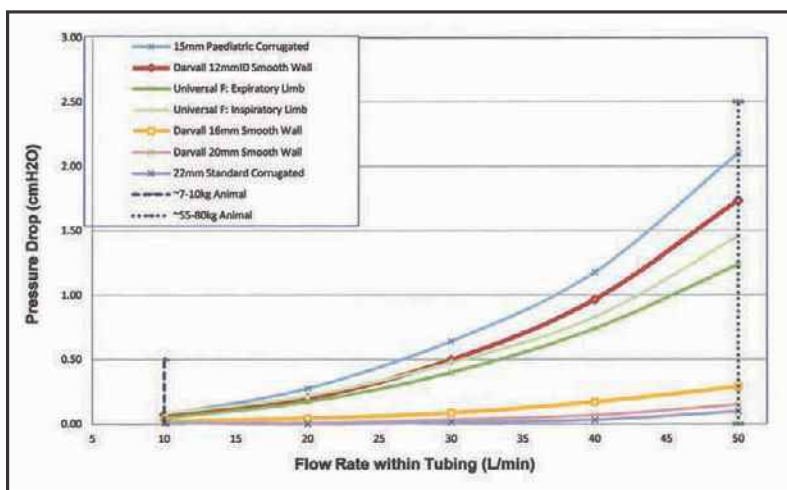
**Darvall Smooth Wall Tubing (SWT) reduces tube volume by up to 70% for faster circle system response in very small animals.** Tubing accounts for up to 1/2 the resistance of circle absorber systems<sup>1</sup>. Darvall's small diameter, smooth wall tubing has been shown to produce less resistance than typical 22mm corrugated tubing. Darvall SWT 16mm ID x 1.6M long can support animals up to 80kg with less than 0.5cm H<sub>2</sub>O pressure drop; Darvall SWT 12mm ID x 1.6M long can support animals up to 40kg [see graph]<sup>1,2</sup>.

### Efficient & Responsive Breathing Systems

SWT offers a huge efficiency advantage (volume of gas relative to the size of animal) requiring as little as 63% (SWT 16) and 32% (SWT 12) the volume of 22mm ID corrugated tubing or Universal F tubing. SWT reduce volume and enable circle systems to be used on very small animals down to 2kg at economical low gas flows.

### References

1. CI Dunlop, JS Dunlop, T Wallis et al. Efficiency, volume and flow resistance of anaesthesia circle system breathing hose. Abst. ACVA Ann. Meeting, San Antonio TX, Sept 2012
2. T Wallis, CI Dunlop, JS Dunlop et al. A model for analysis of flow resistance in a circle system designed for small animals to 2kg. Abst. WCVA, Capetown S. Africa Sept 2012



Pressure drop flowing medical air through straightened hoses with 1.6M patient length. Flows between 10 and 50 L/min were used to simulate peak flow rates in animals with weights in the range 7kg-80kg.

# Accurate, Light & 5 Year Service

## DAR✓ALL DVM-Iso Precision Vaporiser

**Vaporiser designed for accurate performance at low gas flows. Ideal for anaesthesia of small animals.**

Calibrated at 2 L/min,  
tested at 500ml/min  
(Industry standard: 5 L/min)

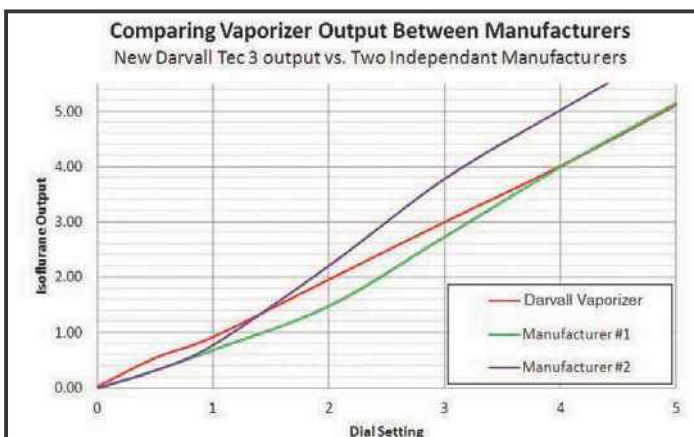
**Darvall DVM Iso** is the finest vaporiser yet produced for Veterinary anaesthesia in small animals. A proud joint venture with AAS Australian design and engineering, CNC supported manufacturing by the finest British metal engineers, innovative precision metal coatings for long service interval, assembly by vaporiser craftsmen who still retain the



black art passed down from the original manufacturer, Cyprane in Yorkshire, and zero tolerance calibration at 2.0 L/min gas flow using the knowledge gained by AAS from 15 years of vaporiser research, service, testing and trouble shooting.

For over 5 years there has not been a new Tec 3 type vaporiser shipped to AAS from the UK,

North America or China that has met Cyprane's specifications and been suitable for sale. We have had to completely disassemble and rebuild these vaporisers to get acceptable performance at standard veterinary O<sub>2</sub> flows and be confident to assign our name and reputation to them... Well not any more!



Vaporiser performance at 1 L/min. Output should be within 20% of the dial setting, particularly at the critical range of operation from 1% to 3% isoflurane.

## DAR✓ALL DVM-Iso

- 5 year Service Interval reduces inconvenience & maintenance costs
- Durable Ceramic Coated Valve Surfaces
- Lightweight 3kg (standard TEC3 =7kg)
- Accurate from 2.0 to 0.5 L/min gas flows
- OH&S: Precision Machining = Leakproof
- Reduce Atmospheric WAG Pollution x 90%
- 5 Year Warranty (conditions apply)



# Extreme Anaesthesia

## The AAS Stinger™\* - Rugged and Reliable

### MRI Anaesthesia



**The  
Stinger**

- Compact sturdy design
- Easy to use and maintain
- Airway pressure gauge
- Includes hoses & bags
- Minimal service required
- Mobile, Table-Top or Wall-Mount

### Transport

#### Features:

- Aluminum transport case
- Shockproof lining
- Insulated for temperature extremes
- Rapid setup and operation
- Case doubles as work surface or stool
- Fits all table top Stinger™ models



### Back Pack

The Stinger™ Back Pack is a tough, reliable field anaesthetic machine that will go anywhere.



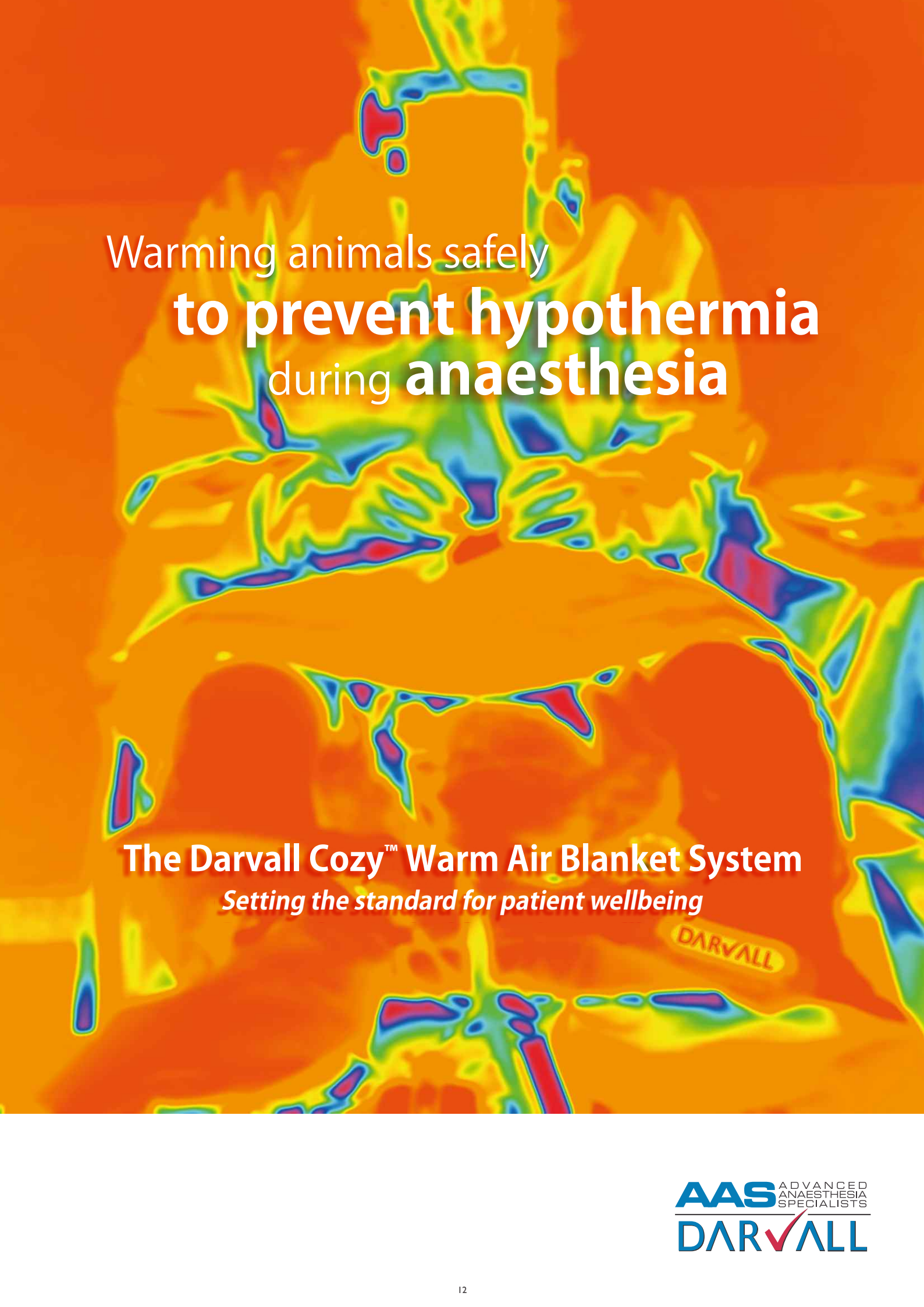
Even Dr Colin Dunlop can carry the Stinger Back Pack easily.

#### Features:

- Sealed, water proof Pelican case
- Mounted on back pack frame
- Removable for hospital use
- Low maintenance machine
- All parts replaceable by end user
- Suitable for all patients





A thermal image of a patient under anesthesia, showing a warm air blanket being used. The blanket is visible as a bright yellow/orange area covering the patient's body, while the patient's skin is cooler, appearing in shades of blue and green. The text is overlaid on the image.

Warming animals safely  
**to prevent hypothermia**  
during **anaesthesia**

**The Darvall Cozy™ Warm Air Blanket System**

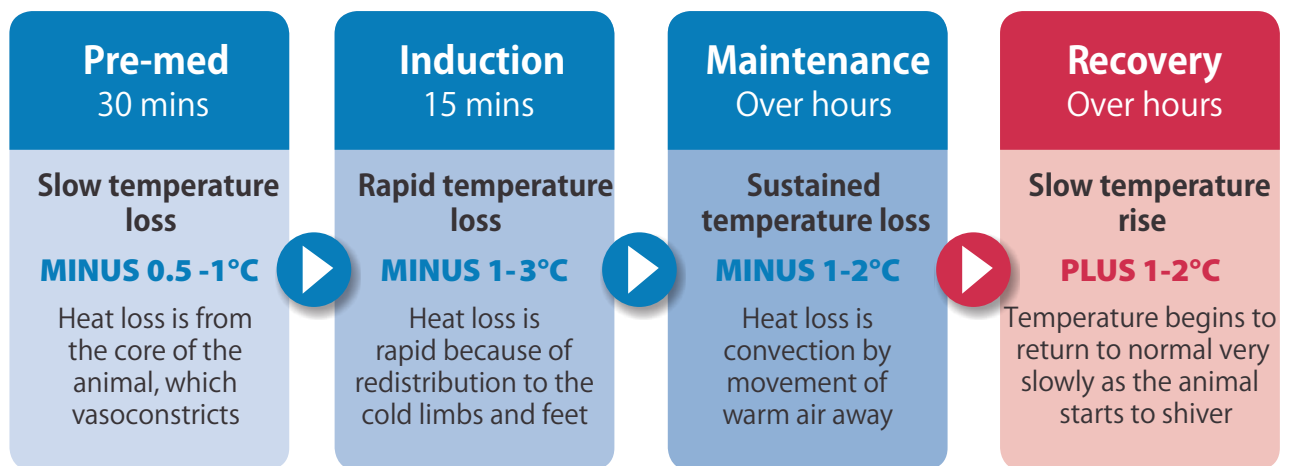
*Setting the standard for patient wellbeing*

# Hypothermia during anaesthesia

## Multiple causes

- Small body size
- Vasodilation from premedication and anaesthetic drugs
- Heat loss from skin surface or open body cavities
- Lack of shiver response
- Inhalation of cold, dry anaesthetic gases

## Stages of development of hypothermia during anaesthesia



## Challenges in Practice

Hypothermia slows recovery from anaesthesia:

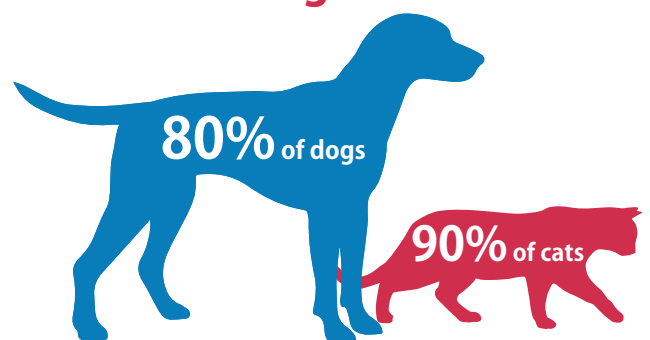
- Doubles recovery time
- Occupies nurse time in monitoring and re-warming cold patients
- Delays discharge, especially for out-patients

## Challenges for Patients

Hypothermia increases risk of related problems:

- Slow heart rate and respiratory depression
- Slow metabolism of drugs, slows recovery
- Pain at surgical site due to shivering in recovery
- Pain as vasoconstriction reduces distribution of analgesic drugs
- Airway obstruction in semi-conscious patients
- Risk of burns with many warming devices

## Significant mortality risk in dogs and cats



suffer hypothermia during anaesthesia  
Hypothermia: when the body temperature drops by  $>1^{\circ}\text{C}$

**1 in 500 animals die**  
under anaesthesia or sedation\*

**Around 50%**  
of these deaths occur during recovery,  
when many patients are hypothermic

# Introducing the Darvall Cozy™ Warm Air Blanket System

The solution for hypothermia, developed by vets, for vets

## Cozy™ Warm Air Heater

**Warms animals safely in kennels and surgery**

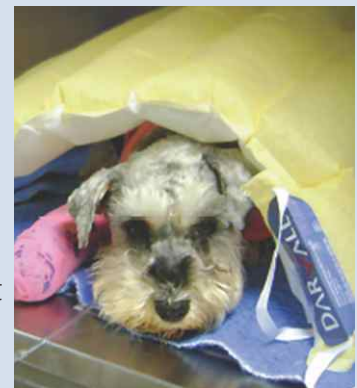
- Only 40 minutes to pre-warm
- Half the time of recovery warming
- Simple, low-cost routine maintenance and no down-time
- Heater run time monitored for recording and costing
- Compact, quiet and easy to use



## Cozy™ Warm Air Blankets

**Designed for surgery, dentistry, exotics and kennel use**

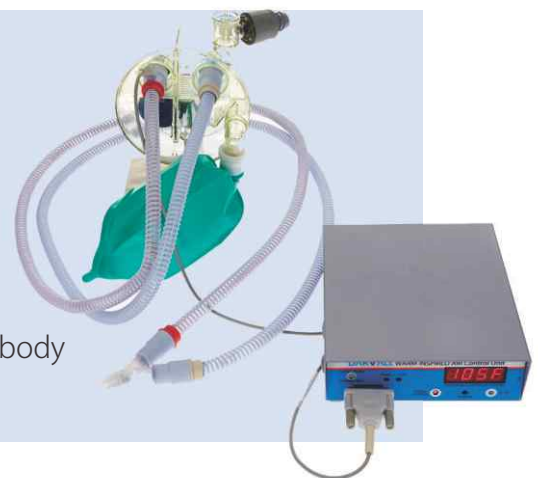
- Use for pre-warming, anaesthesia and recovery
- Custom sizes for all companion animals
- Thermodynamic design allows rapid heat distribution
- Antimicrobial-filtered warm air maintains sterile surgical environment
- Thermostatic control ensures patient safety
- Cost effective for client and clinic



## Darvall Heated Breathing Anaesthesia Circuit

**Reduce critical heat loss with warm air inhalation**

- Darvall Smooth Wall Tubing warms gas before it is breathed
- Warms from the first breath
- Continuous temperature monitoring of airway and patient's body
- Automatic temperature feedback controls unit



\*Study of 98,036 dogs and 79,178 cats in 117 UK veterinary practices during a 2-year study period  
Brodbeck D *et al*/Veterinary Anaesthesia and Analgesia 2008; 35: 365-373.



# DARVALL Cozy™ Warm Air Blanket System

## Warming Animals Safely to Prevent Hypothermia in Anesthesia

### Solving Hypothermia

- Effective
- Thermodynamic
- Pre-Warming
- Rapid Response
- Safe Warming



### Leave Hospital Sooner

- Physiological Stability
- Efficiently Increase Temp.
- Saves Tech-Time
- Faster Wake Up
- Fewer Complications

## Innovative Warm Air Blankets for Surgery, Dentistry, Exotics & Kennels

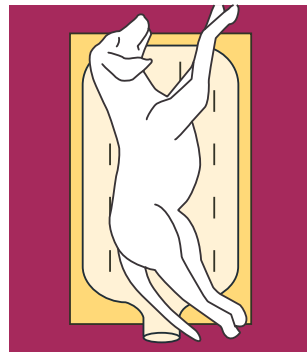
### Use for Pre-warming, During Anaesthesia & In Recovery



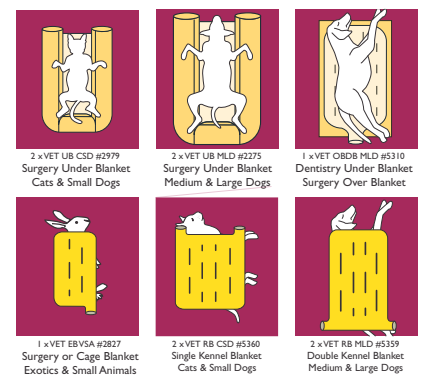
VET UB CSD #2979  
Surgery Under Blanket  
Cats & Small Dogs



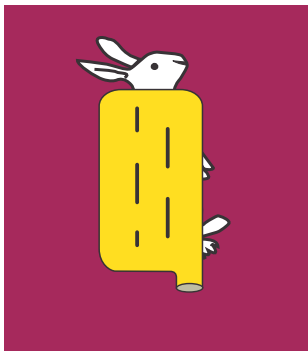
VET UB MLD #2275  
Surgery Under Blanket  
Medium & Large Dogs



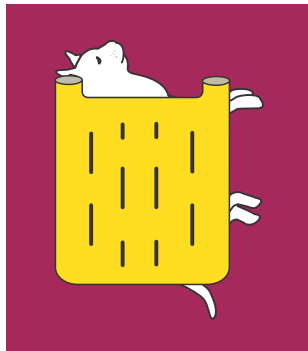
VET OBDB MLD #5310  
Dentistry Under Blanket  
Surgery Over Blanket



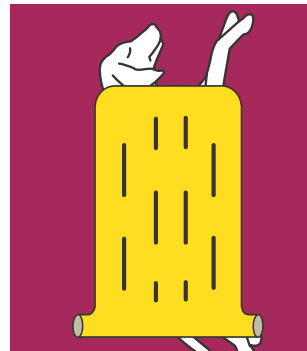
Sample Pack #8460  
10 X Cozy Blankets



VET EBVSA #2827  
Surgery or Cage Blanket  
Exotics & Small Animals



VET RB CSD #5360  
Single Kennel Blanket  
Cats & Small Dogs



VET RB MLD #5359  
Double Kennel Blanket  
Medium & Large Dogs

**Cozy™**

**Starter Kit #9084**

**Pre-Warming in Kennels**

- Cozy™ Heater #9612
- Kennel Door Adapter #5366
- Sample Pack #8460



Darvall Cozy™ #9612  
WarmAir Heater



Kennel Door Adapter #5366  
Kit with Extension Hose #7882



Heater Hose Clamp #9742



2-Kennel Heater Hose Kit #1959

Patents granted and pending

# The Darvall Cozy™ Warm Air Blanket System

*Setting the standard for patient wellbeing*

## For reduced anaesthetic complications

- Cardiac
- Respiratory
- Anaesthesia maintenance

## For rapid anaesthesia recovery

- Safe, confident warming
- Fewer post-operative complications in warm patients
- Improved patient outcomes
- Patients go home sooner

Find out more about the Darvall Cozy™ Warm Air Blanket System

For more information contact:



## ALL THE BEST BRANDS

Eurovets is dedicated to providing your clinic with all your veterinary needs. We offer a comprehensive premium product range at highly competitive prices from small to large animal practices. It includes items such as diagnostics, nutritionals, medicines, feed, equipment, consumables and more.

**Eurovets YOUR complete veterinary Supply and Support SOLUTION.**



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