





ABOUT EUROVETS

EUROVETS IS YOUR COMPLETE VETERINARY SUPPLY & SUPPORT SOLUTION

Eurovets, established in 2001 has become the Middle East's foremost supplier of some of the world's best known veterinary products to veterinary clinics throughout the UAE.

We represent leading multi-national brands in nutrition, veterinary equipment, medicines and consumables for companion, equine and production animals. In addition to the traditional wholesaling, Eurovets provides warehousing, distribution, marketing and sales resources in order to support the product in the region.

We also offer a host of value-added services such as maintenance and support for all equipment supplied; service-based offerings such as allergy testing; even end-to-end IT solutions for clinics.

Eurovets supports Continued Professional Development, imparting knowledge of the latest developments in the field to veterinary professionals through high-powered seminars.

We pride ourselves on our professional approach and offer vet specialized product advice where required.

In conclusion our mission is to not only deliver excellent products but to be committed to deliver exceptional customer service to all veterinary clinics and pet retailers in the region.

Eurovets YOUR headquarters for veterinary supply and support and a proud distributor of the AAS Darvall brand.



Developed by Advanced Anaesthesia Specialists (AAS) – Darvall's brand of innovative products focuses on addressing long-standing veterinary anaesthesia problems. Owned and operated by veterinarians, AAS specializes in engineering products and equipment that are easy to use and solves common challenges faced by veterinarians. More than 80% of the animals that are anaesthetized are smaller than 16kg, keeping patient safety in mind, Darvall with their range of products has offered an effective alternative for small animal anaesthesia.

Darvall were also the first to introduce heated breathing circuits, cozy warm air heater, and forced-air warming blankets to tackle hypothermia troubles.





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Making Anaesthesia Easier

The AAS Stinger™* - Predictable & Reliable



Deluxe

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

Storage Basket
(optional)

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!



TableTop 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	4	4	4
O2 high pressure supply hose-2m	4	4	4
O2 flow meter 0-4 lpm	0-1lpm	4	4
Darvall vapouriser & filling adapter	4	4	4
Airway pressure gauge	C	4	4
O2 flush & gas outlet	4	4	4
NRB deluxe Bain circuit	4	4	4
ZDS face mask circuit	4	4	4
Darvall breathing canister	C	4	4
Darvall smooth-wall circuits: 2 sizes	C	4	4
Wall mount assembly	C	C	-
IV Pole assembly	C	C	4
Wheel base assembly	C	C	4
O2 cylinder holder	C	C	C
Waste gas scavenger	C	C	C

4 = Standard C = Can add

] Patents granted and pending

AAS Stinger™ Ultra

Darvall's DVM Iso Precision Vaporiser with 5 year service



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



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



Darvall Pressure Gauges for accuracy & safety



"Ready to Roll" Basket for convenient & immediate storage



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



1 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! 1

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

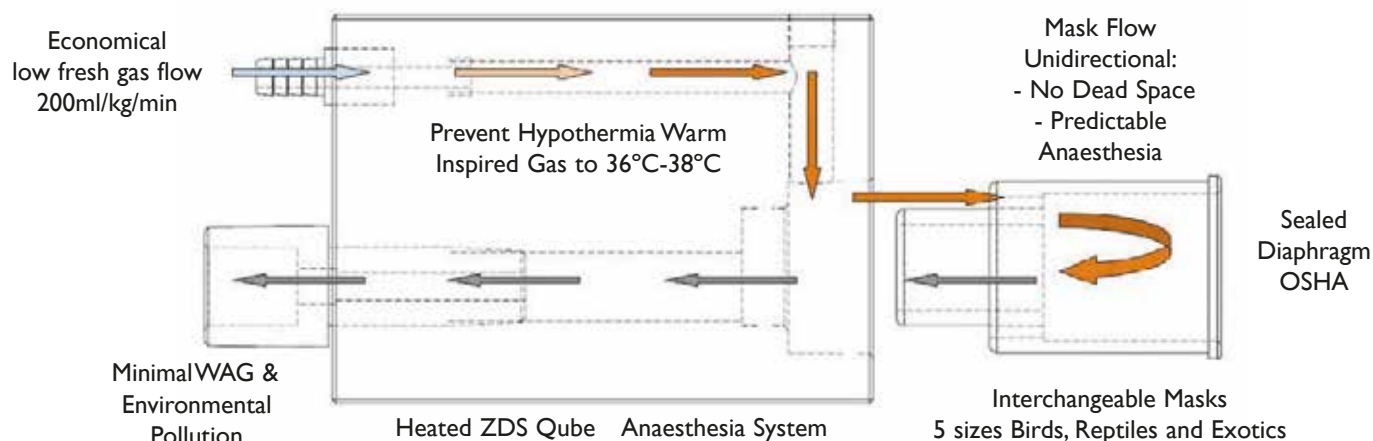


Darvall Stingray: rapid response at low gas flows

- 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

DAR✓ALL 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 CO₂ 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 CO₂ 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.

DAR✓ALL 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



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

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 |

*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 O₂ therapy



2 sizes of diaphragms available

*Patents granted and pending

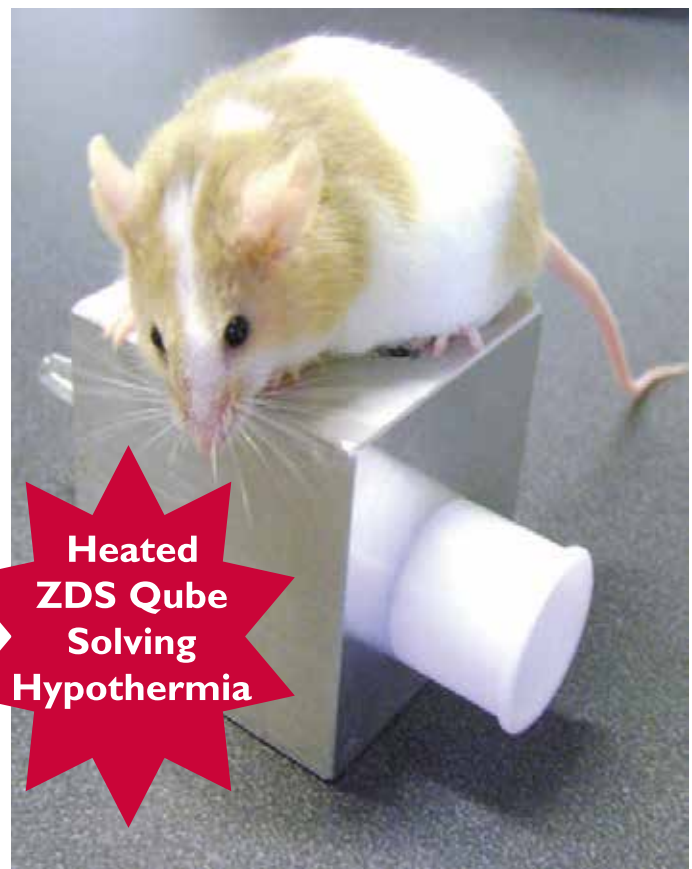


Features:

- 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

*Patents granted and pending

Minimal Stress Anaesthesia

DARVALL

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



DARVALL

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

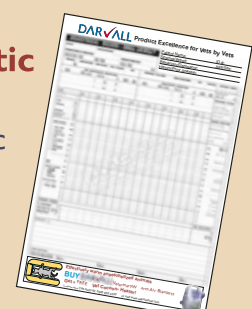
- Monitoring: O₂, CO₂ & BP
- Hypothermia
- Machine Testing
- WAG management

Check List Cards

- Machine Set-Up
- CPR
- Critical Situation:
 - O₂ & CO₂
 - HR & BP

Anaesthetic records

- Systematic
- Simple
- Safety



*Patents granted and pending

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 CO₂ Absorber

Smooth Wall Tubing: Low Resistance, Low Volume

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

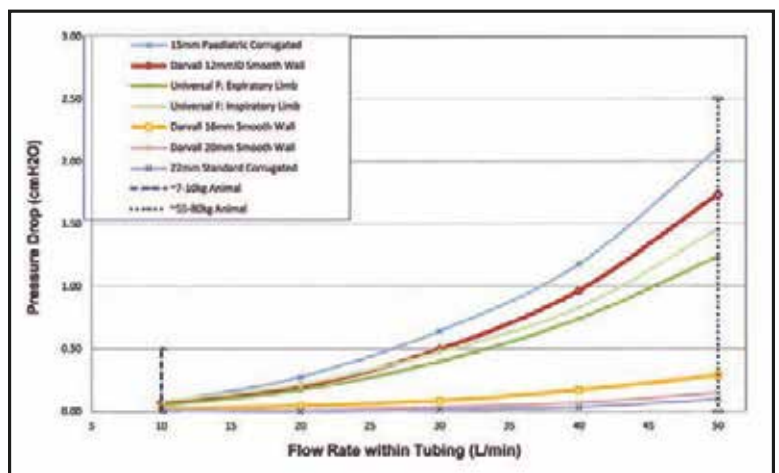
Darvall Smooth Wall Tubing (SWT) reduces tube volume by up to 70% for faster circle system response in very small animals. Tubing accounts for up to 1/2 the resistance of circle absorber systems¹. Darvall's small diameter, smooth wall tubing has been shown to produce less resistance than typical 22mm corrugated tubing. Darvall SWT 16mm ID x 1.6M long can support animals up to 80kg with less than 0.5cm H₂O pressure drop; Darvall SWT 12mm ID x 1.6M long can support animals up to 40kg [see graph]^{1,2}.

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)

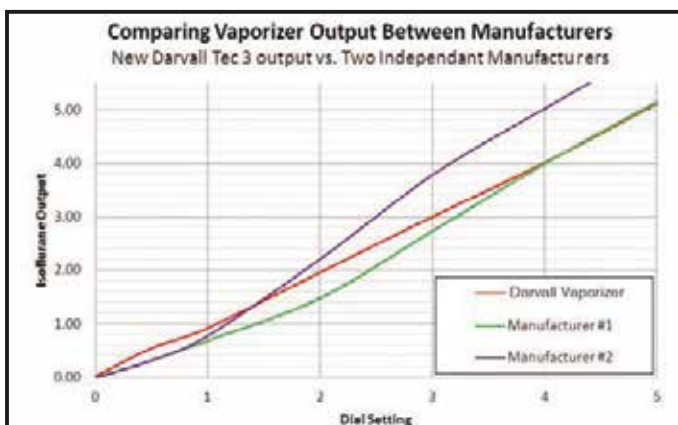
Darvall DVM Iso is the finest vaporiser yet produced for Veterinary anaesthesia in small animals. A proud joint venture with AAS Australian design and engineering, CNC supported manufacturing by the finest British metal engineers, innovative precision metal coatings for long service interval, assembly 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 O₂ 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



*Patents granted and pending

Darvall® Express Veterinary Monitor

- Innovation in Animal Vital Signs Monitoring
- Affordable Solution for Capnography
- 20 years Practical Monitoring Experience



- Veterinary Monitor – Darvall's Software
- Respiratory Function – ETCO₂ Mainstream
- Reliable – Rugged CO₂ sensor
- No WAG Risk – No CO₂ gas sampling
- Read from 2m – Large LED display
- Waveform display – ETCO₂ – SpO₂
- Rapid Interpretation – Colour code display
- Simple navigation – Hard Screen Return button
- Alarm Pre-set – Large Dogs/Cats & Small Dogs
- One Button Set Alarms – Customised to the animal
- Anesthetic Record – Download case data
- Alarm Event Record – Download events & data
- NIBP Record – Hypertension monitoring
- Works on Small Critters – High HR 350/min
- Easy to mount – IV Pole mount or shelf
- Portable lightweight with 10hr battery
- Rugged Shock-proof (1.5m test) & waterproof
- Express Alarm Quick-Set

SPECIFICATIONS



- Darvall Mainstream ETCO₂
- Nellcor Pulse Oximetry
- Darvall Vet SpO₂ sensor 12-month warranty
- Suntech Veterinary NIBP
- Darvall Body Temperature

NOTES

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NOTES

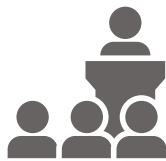
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WHY EUROVETS?



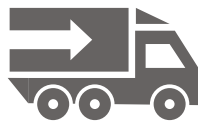
IMPORTER

Source and import the highest quality products to meet the needs of veterinary, equine and camel markets across the GCC region.



SEMINARS AND CPD EVENTS

Continuing professional development (CPD) seminars and events deliver relevant, practical knowledge for veterinarians and healthcare professionals.



LOGISTICS, FLEET AND DISTRIBUTION

Temperature-controlled vehicle fleet and state-of-the-art inventory management system.



FACILITIES

Fully certified,
Temperature-controlled warehouses.



BRAND MANAGEMENT & MARKETING

Digital & traditional marketing support for the brands and products we represent.



AFTERMARKET SOFTWARE AND SUPPORT

In-house technical field support team provides onsite installation, staff training, equipment maintenance and software updates.

Eurovets YOUR complete veterinary Supply and Support SOLUTION.



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