

## Vapor 2000/D-Vapor

Intuitive anesthesia control in your hands. You expect versatility and low lifecycle costs we give you performance and proven reliability.



### VAPOR 2000 AND D-VAPOR:

exemplary handling qualities in operation or transport.

Dräger Medical's new Vapor family is specifically designed to extend user accessibility with a variety of new features. For example, the increased capacity of the anesthetic agent tank (300 mL) can now hold the entire content of an anesthetic agent bottle, leaving no waste and thereby saving you cost.

This transport-safe design is so efficient that not even violent shaking can cause the anaesthetic agent to escape into the concentration control elements or surrounding air.

Filling the Dräger Medical Vapor family is a quick and easy job and leaves no residual liquid left in the bottle. The newly designed "Dräger Fill" filling system without wearparts guarantees low life cycle costs and user-friendly handling.



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Dräger Vapor 2000 family.



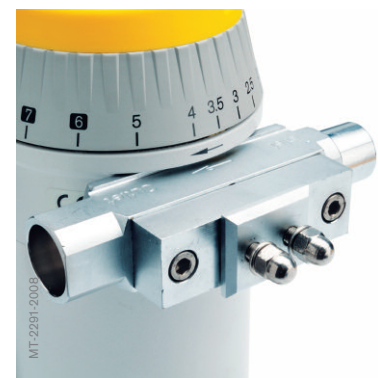
Auto Exclusion plug-in adapter



Permanent connection with the appropriate connector options (not shown)



Plug-in S-2000 adapter with Interlock S



Conical connectors without Interlock system

**VAPOR 2000/D-VAPOR:**

unparalleled dosage performance meets challenge of new anaesthetic agents and methods

The Vapor 2000/D-Vapor easily provides the high dosage concentration required to achieve the shortest possible wash-in times during induction. Moreover, the unmatched dynamism of its flow and concentration ranges means the Vapor 2000/D-Vapor effortlessly complies with the demands of a minimal flow regime. The extended temperature range of 10 - 40°C ensures the accuracy of concentration can be satisfactorily controlled even during extreme operating conditions.

**VAPOR 2000/D-VAPOR:**

a flexible systems component of perfect design

The Vapor 2000/D-Vapor's ultra-flexible design means it fits into the modern anaesthesia system environment without problem. In addition to the Dräger Medical plug-in system DW-2000, the fixed mount and the Selectatec®\* compatible plug-in system S-2000® are available with the respective interlock systems for multi-vaporizer operations. Vapor 2000/D-Vapor is also suitable for all models fitted with an ISO 23 mm conical connector also.

OEM labeling options can be requested to provide complete system consistency.

The Vapor 2000/D-Vapor's new design reflects its low lifecycle costs. Not only is the Vapor 2000/D-Vapor needs no manufacturer overhaul, it also requires no recalibration in its lifetime, either. Another striking new feature is the cap of the control dial is now shaded with the agent's standard color - an eye-catching feature that reduces the risk of mix-ups. The D-Vapor is the newest member of the Dräger Vapor family with the same outstanding design features. For ease of use, the electrically powered D-Vapor incorporates an innovative alarm and handling concept. As an outstanding feature the D-Vapor provides a battery powered operation to bridge short term power failures.

**TECHNISCHE DATEN**

<b>Concentration range</b>	Halothane 0.2 to 6% Enflurane 0.2 to 8% Isoflurane 0.2 to 6% Sevoflurane 0.2 to 8% Desflurane 2 to 18%
<b>Temperature range</b>	
Ambient and Vapor temperature during operation	10 to 40° C; D-Vapor 18 to 30° C
during shut-down (filled, control dial at »T«)	0 to 40° C
during storage (empty, dry wick)	-20 to 70° C; D-Vapor -20 to 60° C
<b>Flow range</b>	
	0.2 to 15 L/min 0.2 to 10 L/min for concentrations > 5 vol. % (Vapor 2000)
<b>Filling volume for anaesthetic agent</b>	
	about 360 mL with dry wick about 300 mL with moist wick 300 mL D-Vapor
<b>Maximum angle of tilt</b>	
during transport (control dial at »T«)	any position and angle
during operation	30° (10° D-Vapor)
<b>Vapor conforms to Standards<sup>1)</sup></b>	
	EN 740 <sup>2) 3) 4)</sup> ASTM F1161 ISO 5358 ISO 8835-4: 2004 <sup>2) 3) 4)</sup> 93/42/EEC Medical Device Directive
The keyed filling system conforms to the following Standards for anaesthetic-agent-specific filling systems:	EN 1280 ISO 5360 ISO 5356-1
<b>Warm up time*</b>	5 min typical
<b>Battery power during power failure*</b>	5 min typical
<b>Voltage* (nominal)</b>	100 V till 240 V
<b>Frequency*</b>	50 Hz till 60 Hz
<b>Power consumption* (typical)</b>	< 460 W (warm up phase, 230 Volt) < 100 W (standard operation)

<sup>1)</sup> When used in combination with other machines/medical products the relevant Standards for the machine combination must be followed.

<sup>2)</sup> These Standards require an anaesthetic agent-specific filling system.

<sup>3)</sup> Conforms to IEC 601-1/EN 60601-1.

<sup>4)</sup> These Standards require anaesthetic agent measurement for operation of vaporiser with an anaesthesia delivery system.

\* D-Vapor only

Dräger-Vapor and plug-in system S-2000 are registered trademarks of Dräger Medical.



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**Halothane**



MT-2311-2008

**Enflurane**



MT-2310-2008

**Isoflurane**



MT-2313-2008

**Sevoflurane**



MT-2309-2008

**Desflurane**

**HEADQUARTERS**  
Drägerwerk AG & Co. KGaA  
Moislinger Allee 53–55  
23558 Lübeck, Germany

[www.draeger.com](http://www.draeger.com)

**REGION EUROPE CENTRAL  
AND EUROPE NORTH**  
Dräger Medical GmbH  
Moislinger Allee 53–55  
23558 Lübeck, Germany  
Tel +49 451 882 0  
Fax +49 451 882 2080  
[info@draeger.com](mailto:info@draeger.com)

**REGION EUROPE SOUTH**  
Dräger Médical S.A.S.  
Parc de Haute  
Technologie d'Antony 2  
25, rue Georges Besse  
92182 Antony Cedex, France  
Tel +33 1 46 11 56 00  
Fax +33 1 40 96 97 20  
[d1mfr-contact@draeger.com](mailto:d1mfr-contact@draeger.com)

**REGION MIDDLE EAST, AFRICA,  
CENTRAL AND SOUTH AMERICA**  
Dräger Medical GmbH  
Branch Office Dubai  
Dubai Healthcare City, P.O. Box 505108  
Dubai, United Arab Emirates  
Tel + 971 436 24 762  
Fax + 971 436 24 761  
[contactuae@draeger.com](mailto:contactuae@draeger.com)

**REGION ASIA / PACIFIC**  
Dräger Medical  
South East Asia Pte Ltd  
25 International Business Park  
#04-27/29 German Centre  
Singapore 609916, Singapore  
Tel +65 6572 4388  
Fax +65 6572 4399  
[asia.pacific@draeger.com](mailto:asia.pacific@draeger.com)

**REGION NORTH AMERICA**  
Dräger Medical, Inc.  
3135 Quarry Road  
Telford, PA 18969-1042, USA  
Tel +1 215 721 5400  
Toll-free +1 800 437 2437  
Fax +1 215 723 5935  
[info.usa@draeger.com](mailto:info.usa@draeger.com)

Manufacturer:  
Dräger Medical GmbH  
23542 Lübeck, Germany  
The quality management system at  
Dräger Medical GmbH is certified  
according to ISO 13485, ISO 9001  
and Annex II.3 of Directive 93/42/EEC  
(Medical devices).