

"Technology for Life" is our guiding principle and our mission. Wherever they are deployed – in clinical settings, industry, mining or emergency services – Dräger products protect, support and save lives.

Technology for Life



"Our business activity serves a higher purpose: we make technology for life."



Stefan Dräger, CEO, Drägerwerk Verwaltungs AG

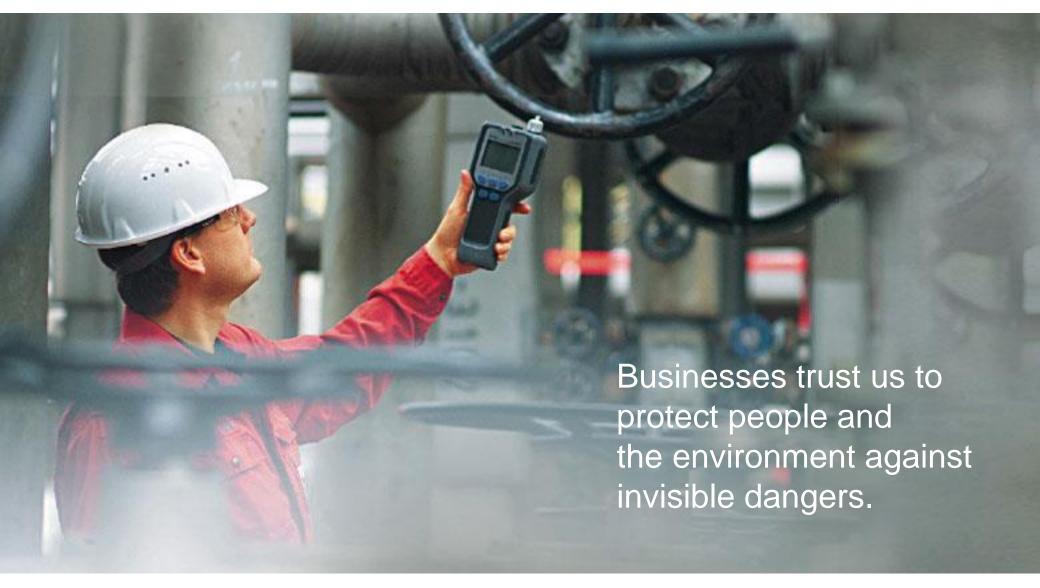
Dräger







Dräger







Overview – a family business in its fifth generation





Heinrich Dräger, 1847 – 1917 Businessman Drägerwerk founder Manager 1889–1914



Dr. Christian Dräger, born 1934 Dr. oec. Publ., Dipl.-Kfm. CEO, Drägerwerk AG 1984 – 1997



Dr. Bernhard Dräger, 1870 – 1928 Dr.-Ing. h. c. Co-founder of Drägerwerk Managing Director, 1902 – 1928



Theo Dräger, born 1938 Dipl.-Kfm. CEO of Drägerwerk AG 1997 – 2005



Dr. Heinrich Dräger, 1898 – 1986 Dr. med. h. c., Dr. agrar. Managing Director of Drägerwerk, 1928 – 1984



Stefan Dräger, born 1963 Dipl.-Ing. (BA) CEO since 1 July 2005

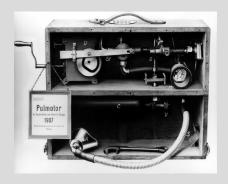


Celebrating

100

Years of

Ventilation



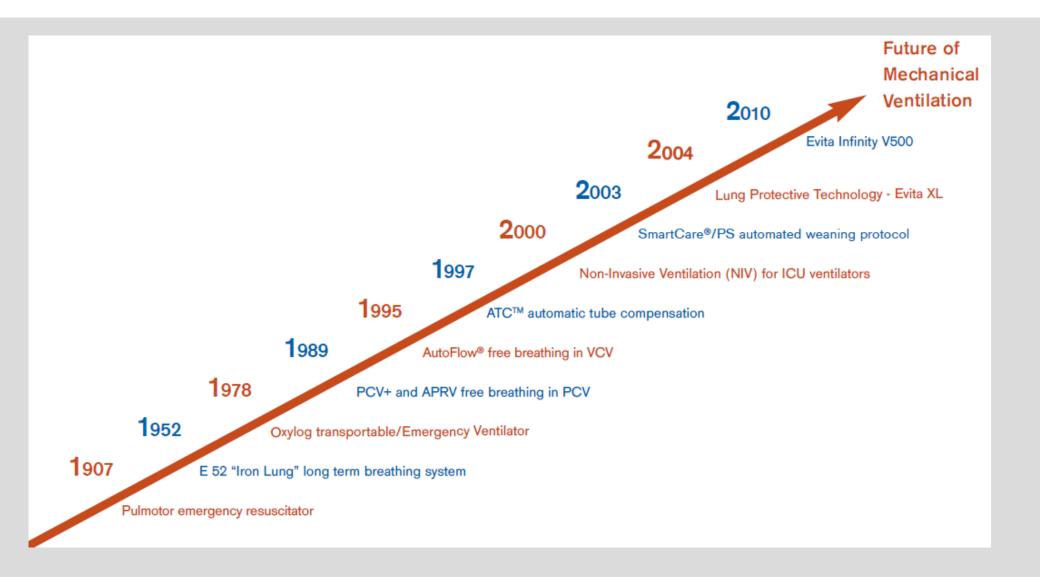


100 Years of Innovation in Ventilation. Dräger. Technology for Life•



Innovation





Ventilator Product Development



Manufacturer	Drager	Тусо	Maquet	Viasys	Hamilton
Founded	1889 Drager Corp	1913 Bennett Corp	1971 Elma Shonander	1954 Bird Corp	1983 Hamilton
First Vent	1907 Pulmotor	1968 MA-1	1971 Servo 900	1958 mark V11	1989 Amadeaus
Newest Platform	2010 V500	1998 PB840	2001 Servo I	2002 Avea	2007 G5/ S1 ?
Last Platform	1995E2/2003 Evita XL	1984 PB7200	1993 Servo 300	T Bird/ Bear 1000	2004 G Gold
Second Last Platform	1989 Erisa	1968 MA-1	1991 Servo 900		1999 Galileo
Bought/Sold	Never	1995 Nellcor	1972 Siemens	1990 Thermoelectron	Never
Bought/Sold	Never	1997 Mallinkrodt	2003 Gettinga	2001 Viasys	Never
Bought/Sold	Never	2000 Tyco		2009 Carefusion	Never

Technology History

APRV	1989	2001	2002	2002	2004
Active Exhalation	1992 Autoflow	2001 VC+	2003 PRVC	2002 PRVC	2004 PRVC
Airway Tuve Compensation	1997	2001	None	2002	None
PPS	1997	2006	None	None	2005
Neonatal	1997	2002	2002	2002	2004
NIV	2000	2001	2004	2004	2004
24/7 Clinical Support	2001	None	None	None	None
Automated Protocolized Weaning	2004	None	None	None	2004

Commitment to Technological Advancement



Primary R & D Drivers:

Drager invest 7% of revenue to Research and Development. Our goal is to improve patient outcomes and reduce cost. We achieve this by staying focused on development of new technologies.

Worldwide department of defense partnership: from ships to the battle field.



On-board OR on the USS CARL VINSON









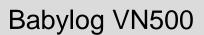




Introducing the Newest Generation...



Evita Infinity V500

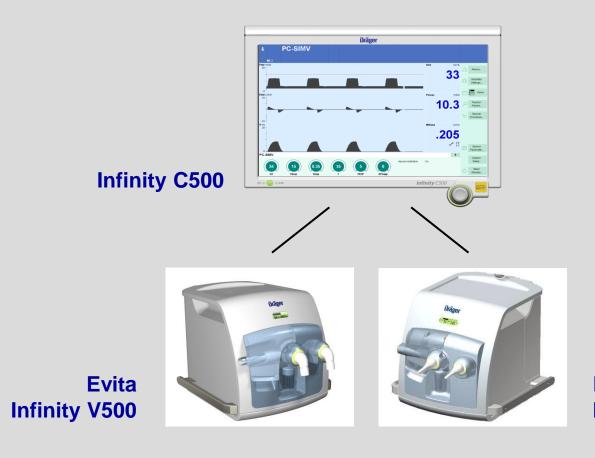






Identical User Interface - the Infinity C500 Designed and configured by you - the end-user





Babylog Infinity VN500

Unique Safety Feature – Independent Device Function





Safety Display Window

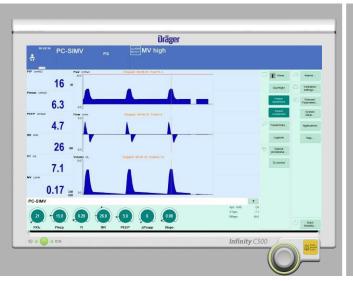
The Infinity V-Series (V500 – VN500) Next Generation Critical Care Ventilator Systems

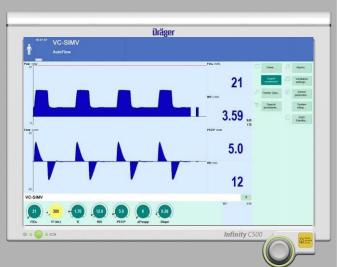


- Sophisticated Simplicity Based On
 - Safety
 - The "My Vent" Concept
 - Clinical Performance
 - Integration
- Backed By The Best Support in the Industry Partners with ICON - 24/7 Bedside Support











Simplicity through personalized configuration

Complete operator's manual online with contextual help

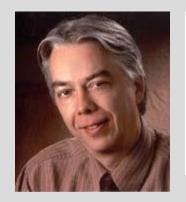
Export logbook, trends, and screenshots Export Configuration to copy to each ventilator in your fleet





Standardization of Nomenclature





Classification of Ventilator Modes: Update and Proposal for Implementation

Robert L Chatburn RRT-NPS FAARC

"Ventilator manufacturers and the respiratory care academic community have not yet adopted a standardized system for classifying and describing ventilation modes."

The question is why not?

Infinity V-Series

VC-AC

VC-SIMV

SPN-CPAP/PS

PC-AC

PC-SIMV

Ventilation Modes – Evita V500



VC & PC MODES

SPN-CPAP/PS

Spontaneous Modes

SPN-CPAP/VS

SPN-CPAP

SPN-PPS

SMARTCARE

VC-SIMV

VC-AC

VC-MMV

PC-SIMV

PC-AC

PC-APRV

PC-PSV



Ventilation Modes – Babylog VN500



PC MODES

PC-SIMV

PC-AC

PC-SIMV with VG

PC-AC with VG

PC-APRV

PC-PSV

PC-PSV with VG

Spontaneous Modes

SPN-CPAP

SPN-CPAP/PS

SPN-CPAP/VS

SPN-PPS



Ventilation Enhancements



- AutoFlow / Volume Guarantee
- Variable Pressure Support
- Smart Pumonary View
- ATC Automatic Tubing Compensation
- NIV Mask Ventilation
- SmartCare / PS –Automated Clinical Protocol in SPN-CPAP/PS
- Low Flow PV Loop
- O2 Therapy
- AutoRelease in APRV

Babylog VN500 + Evita V500- The Future begins



New Tools: Smart Pulmonary View

Anatomic analogy of trachea

Indicating stage of obstruction

Anatomic analogy of lung

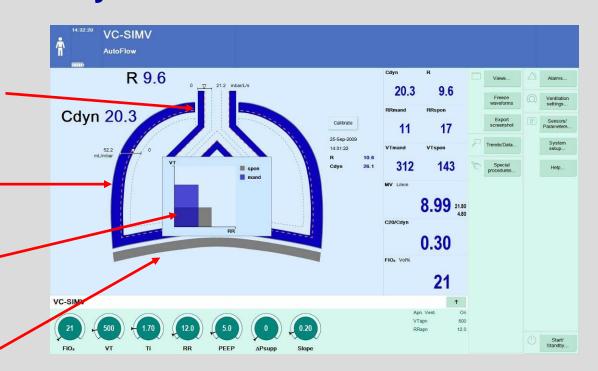
Indicating stage of restriction

MV chart

- Spontaneous (grey)
- Mandatory (blue)

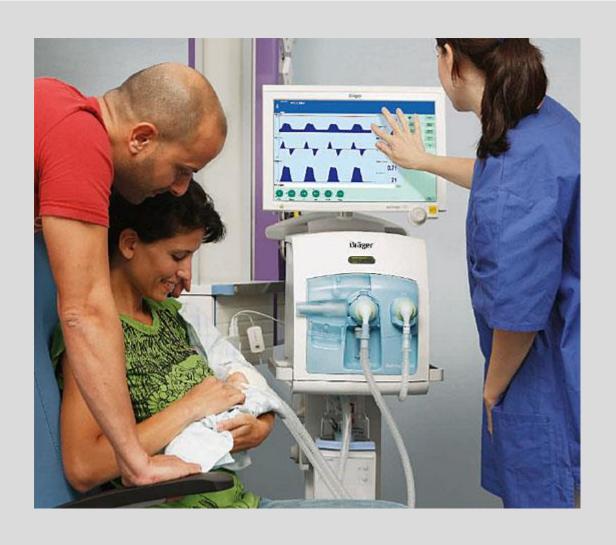
Anatomic analogy of diaphragm

Indicating triggering



Babylog VN500





Babylog VN500



- "Smart" Proximal Flow Sensor / 2 cc's
- Volume readout in cc/kg
- Dual pressure algorithms for machine and patient initiated breaths in Volume Guarantee
- Automatic Leak Adaptation
- Automatic Leak Compensation
- Full complement of modes
- NIV Nasal CPAP & CMV
- Automatic Tube Compensation (ATC) (inspiration and exhalation)
- Weight related and patient category related start settings





V500/VN500 Series Service Overview



Cost of Ownership Simplified

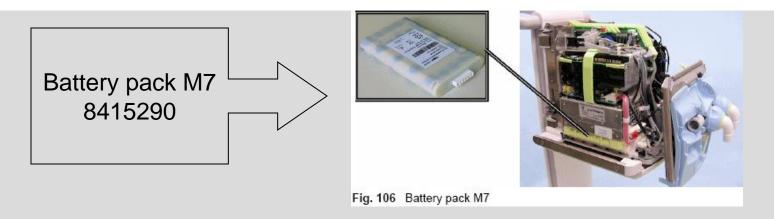


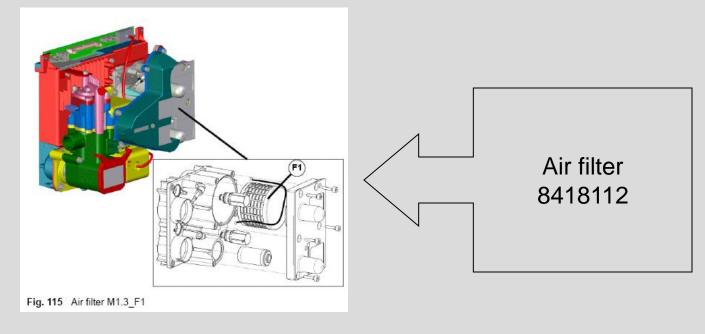
The V500 platform requires that only 3 parts be replaced as part of it's service maintenance needs

- Battery pack M7
- 2. Air filter
- 3. O2 particle filter
- * No O2 Cell Replacement

V500 PM maintenance parts at 2 year interval

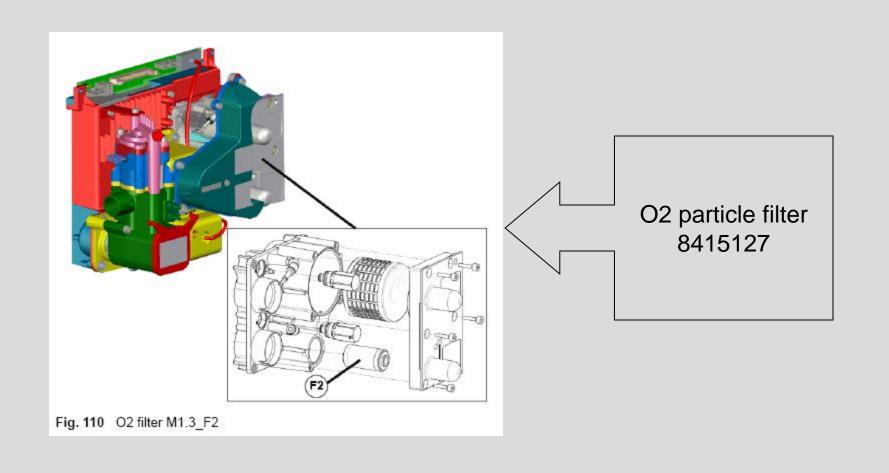






V500 PM maintenance parts at 6 year interval





Cover removed in less than 2 minutes





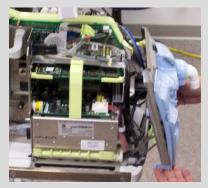
30 seconds ..



45 seconds ..



1 minute ..



1 min. 20 sec ..



2 minutes ..

All PM parts accessed in 4 min 30 seconds ©











2 min. 20 sec ..

3 minutes ..

3 min. 20 sec ..

3 min. 45 sec ..



4 minutes ..



4 min. 30 sec ..

SmartCare/PS



FDA market clearance for SmartCare® 2005

FDA market clearance for *SmartCare®* claims 2008:

- Decrease ICU length of stay by up to 20%^[1]
- Reduce overall ventilation time by **33%**^[1]
- Reduce weaning duration by up to **40%**^[1]
- Supports 100% weaning protocol compliance^[2]

The ability to make these claims is unique to Draeger

1 These results are based on a European Multi-center Randomized Trial with 144 patients demonstrating improved respiratory condition, with stable hemodynamic and neurologic status.

2 Wesley, E,; Effect on the duration of mechanical ventilation of identifying patients capable of breathing spontaneously. N Engl J Med 335:1864, December 19, 1996



Eliminates the guesswork of APRV by:

- Dynamic adjustment of release time with changing respiratory mechanics
- Optimizing lung volume to improve gas exchange



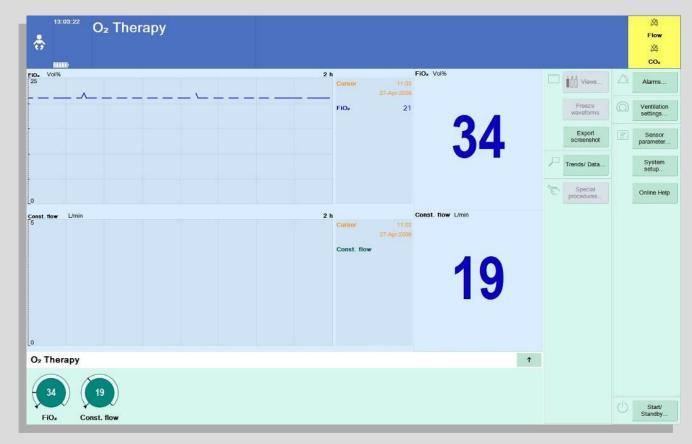
High Flow Oxygen therapy



Uses standard accessories with performance comparable to stand alone systems!







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Thank you for your attention!