Dräger medical
A Dräger and Siemens Company

Fabius Tiro™

Designed for your environment

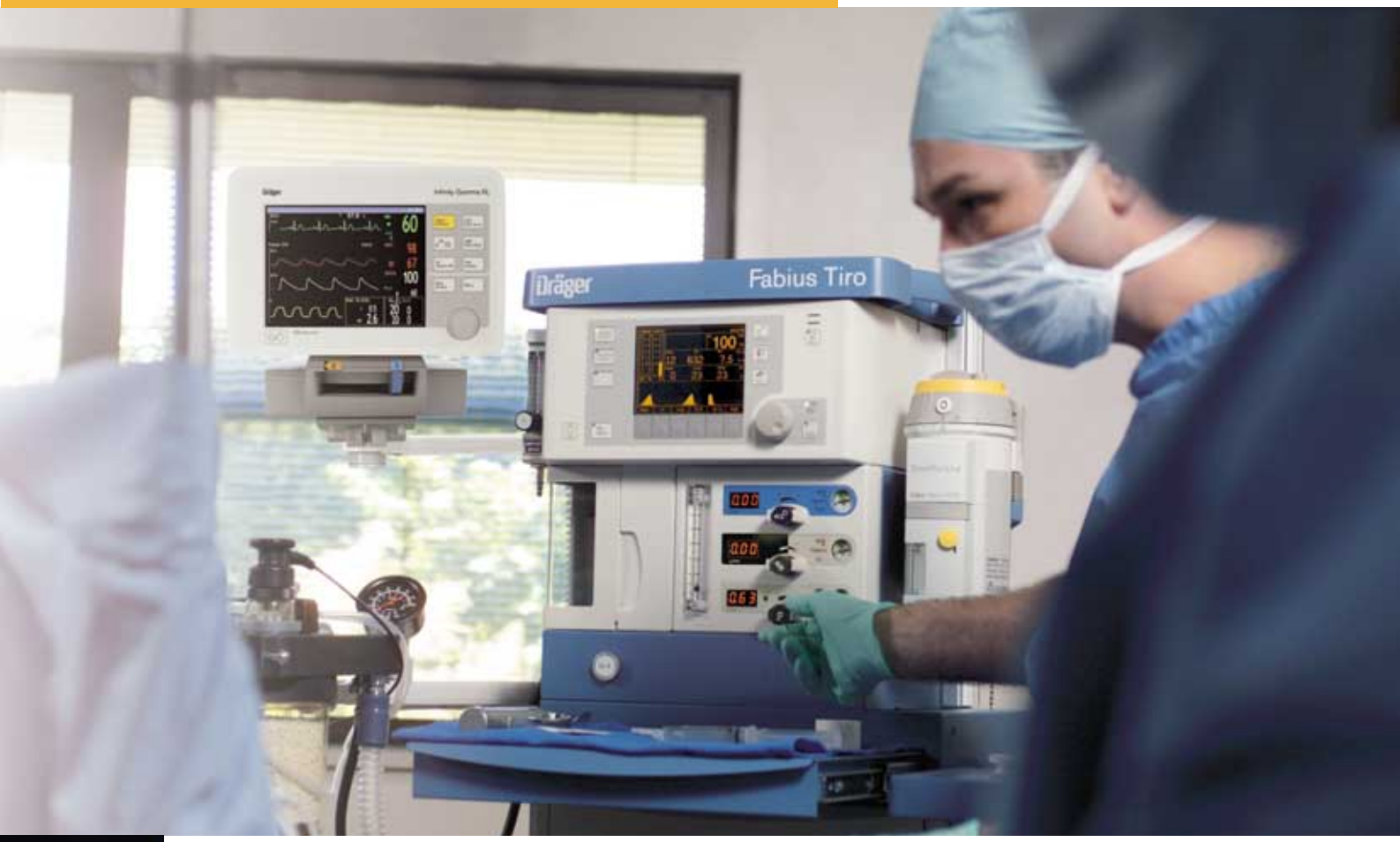
Traditional hospital ORs have their needs ...

With more surgical procedures being performed outside of the traditional OR setting each year, Dräger recognized the need to recruit a specially designed system into our CareArea™ OR/Anesthesia portfolio. Fabius Tiro™* represents our commitment to meet the unique and changing needs of
non-traditional locations, by making the latest technology available at a fraction of the cost:

- Same technology and performance as our other popular systems in a compact design
- Intuitive operation and layout ensures ease of use and a short learning curve
- Ample illuminated workspace
- Communication with automated record keeping systems like the Dräger Medical Innovian™ Anesthesia Solution for enhanced patient throughput
- Convenient compact breathing system (COSY):
  - Fresh gas decoupled for tidal volume delivery unaffected by fresh gas flow adjustments
  - Simplified design allows easy disassembly for sterilization of all components in contact with patient gas
  - Pivot and height adjustment allow convenient positioning of breathing system
- Dräger E-Vent® piston-based ventilator is the latest in precision anesthesia ventilation technology. Electronically driven and controlled, the E-Vent® provides significant advantages for you and your patient:
  - Ventilates any patient - even as your needs change to accommodate sicker patients with more complex procedures.
  - Consumes no drive gas, allowing dramatically increased ventilation time when running on cylinders
  - Precision volume ventilation for pediatric and other applications where accuracy is critical
  - Pressure control ventilation is available as an option
- Fabius Tiro™ – electronically measures and displays fresh gas flows, allowing this important information to be recorded and utilized for cost savings and quality control.

uniquely tailored

*The Latin word tiro (tīrō), means “Young Recruit.”



... we recognize that yours are different.

Until now, you may have been faced with a choice between either a traditional stand alone anesthesia machine or an IT-ready anesthesia system.

If cost and quality have been difficult to balance...

uncompromised

Dräger Medical gives you the best of both worlds with Fabius Tiro™; the anesthesia workstation that combines the ease-of-use of traditional machines with the latest technlogy.

A sound business investment:

- Advanced ventilation technology meets your needs now and in the future
- Modular design – easy to upgrade as your needs change and new features become available, e.g. additional ventilation modes
- Affordable initial cost and low lifetime costs

And that's just the beginning – Fabius Tiro™ is also offered as part of our CareArea™ solution, a complete workstation including our renowned Infinity Patient Monitoring System™:

- Flexible vital signs monitoring
- Intuitive operation
- ESU interference suppression
- Solide state multigas monitoring
- Infinity network interface for electronic availability of all displayd datas

... Fabius Tiro is your solution.

Ideal for office-based surgery ...

flexible

Special attention was payed in the design process of Fabius Tiro™ to meet the safety and flexibility requirements of anesthesia delivery settings outside the main OR:

- Maneuverability allows sharing of systems among areas not constantly in use and better asset management
- Cylinder operation is practical for extended periods, since E-vent® electronic ventilator consumes no drive gas
- Advanced safety features provide additional protection
  - 45 minute battery backup with full operation
  - Fresh gas delivery and manual ventilation possible even when electrical power is lost
  - Self-diagnostics and leak/ compliance tests ensure system integrity
- Space-saving design, since real estate is at a premium
  - Slim footprint
  - Flexible breathing system positioning
  - Wall-mount version provides additional convenience and space savings – ideal for induction rooms

... and remote anesthetizing locations in the hospital.

Technical data

Weight (base unit without vaporizers or cylinders)	
Trolley Mount (cart)	111 kg (245 lbs.)
Wall Mount (with mounting bracket)	48 kg (106 lbs.)
Dimensions	
Trolley Mount (cart)	57.9 cm x 136.1 cm x 62.7 cm (W) 22.8" x (H) 53.6" x (D) 24.7"
Wall Mount	52.8 cm x 55.6 cm x 44.2 cm (W) 20.8" x (H) 21.9" x (D) 17.4"
Maximum load on 12" mounting arm	8.2 kg (18 lbs.)
Power supply	100 - 240 VAC, 50/60 Hz., 2.3 A max.
Battery (supports ventilator and monitor)	45 minutes
Ventilator	Electronically controlled, electrically driven. Base unit with volume control and manual/spontaneous modes. Pressure control optional.
Pressure limiting (volume control)	15 - 70 cm H_2O
Tidal volume (volume control)	20 - 1400 mL
Breathing frequency	4 - 60 bpm
I:E (Inspiration/Expiration ratio)	4:1 to 1:4
Inspiratory pause (volume control)	0% - 50%
PEEP (Positive end-expiratory pressure)	0 - 20 cmH_2O
Inspiratory pressure (pressure control)	5 - 65 cmH_2O
Inspiratory flow (pressure control)	10 - 75 L/min
Integrated safety functions	Sensitive Oxygen Ratio Controller (S-ORC) guarantees a minimum O_2 concentration of 23%. In case of electricity and battery failure, manual ventilation, gas delivery and agent delivery are possible. Positive pressure relief valve opens at 75 ± 5 cmH_2O. Negative pressure relief valve opens at -7.5 to -9 H_2O.
Range of fresh gas flow indicators	0.00 to 12.0 L/min
Total fresh gas flowmeter	0 to 10 L/min, calibrated with 50% O_2 and 50% N_2O mixture
O_2 flush	at 55 psi (3.8 bar): max. 50 L/min; at 50 psi (3.4 bar): min. 35 L/min
Vaporizer	Single Dräger or Selectatec®. Optional off-line vaporizer parking position.
Monitoring	Continuous monitoring of inspiratory O_2 concentration, breathing frequency, tidal volume, minute volume, peak airway pressure and PEEP, as well as selection of mean or plateau pressure. In addition, all fresh gas flow information is displayed as virtual flowtubes.
Communication interface	RS 232
Protocols	Vitalink and Medibus
Data available for export	All fresh gas flow, ventilation and O_2 data
Volume of CO_2 absorber	1.5 Liter
Volume of entire compact breathing system	2.8 Liter + bag
Gas supply	O_2, N_2O & Air, DISS inlet fittings
Cylinder yokes	O_2 & N_2O pin index yokes (trolley); O_2 tethered yoke (wall-mount)
Writing surfaces	Trolley: Pull-out tray standard
	Wall mount: Pull-out tray optional
Additional accessories	Gas scavenging, patient suction

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The quality management system at Dräger Medical AG & Co. KGaA is certified according to ISO 13485, ISO 9001 and Annex II of Directive 93/42/EEC (Medical devices).

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