



# Raising standards through innovation

Siesta i TS anesthesia machine

**PHILIPS**  
sense and simplicity

# Strong technology

Responsive, reliable, and flexible, the Siesta i TS is a robust, easy-to-use solution in every operating theater.



The benefits  
are many

# with a slim design

Siesta i TS brings to the healthcare market an innovative and intuitive anesthesia machine. Through listening to hospital staff and applying our own broad expertise in research & development and clinical application, we have come up with a machine that satisfies our customers needs—and more. The first special feature to meet the eye is the slim, Scandinavian design.

## Continuous platform development

Our commitment to ongoing innovation ensures our technological platform is continuously improved and aims to satisfy even the most demanding users. Through our use of the open-standard technology, the Siesta i TS anesthesia machine is already prepared to interface to hospital networks via an optional SmartLog.

## High-level safety features

You and your patients depend on the reliability of our machines. For that reason, the Siesta i TS has a number of built-in safety features, including:

- An emergency fresh-gas flow switch
- A fresh-gas flow switch between the integrated breathing system (IBS) and the auxiliary gas outlet
- An oxygen flowmeter with separate

outlet, including tube nipple

- Integrated patient suction unit
- Slave regulator in the hypoxic guard function to cut off nitrous oxide and sound an audible alarm in case of a failed oxygen supply
- Fast automatic self-test at start-up to ensure the machine is working optimally
- Built-in battery backup

## More features

- Heart-Lung Machine mode (HLM)\*
- Neonatal ventilation\*—tidal volume down to 10 ml in PRVT\* mode
- SmartLog\*—an electronic patient progress recorder

## Space-saving design

The slim, modular Siesta i TS is a compact choice for all operating theaters, occupying a minimum of space.

Twin wheels allow the machine to be moved around smoothly and easily. Where floor space is particularly limited, the pendant and wall-mounted solutions are practical alternatives.

We have done our best to integrate all the key functions into the machine as standard. Even the AGSS for gas evacuation is among the core functions, eliminating the need for a separate system on the side or rear of the machine.

A backbar for mounting Selectatec vaporizers and simple mounting of all types of patient monitors adds to the flexibility of the Siesta i TS..

\* Option

- Continuous platform development
- Integrated breathing system (IBS)
- User-friendly touch screen
- Microprocessor-controlled ventilator with eight ventilation modes, including PRVT\*
- Electronic gas mixer and optional multigas monitor
- High-level safety features
- Space-saving design

# Advanced anesthesia

## User-friendly TFT color touch screen

The 15" TFT color touch screen is easy to read and simple to use. Use it to set all ventilator and gas mixer settings.

All data from the ventilator, gas mixer, and optional multigas monitor are available at a glance.

Software upgrades can be performed using a laptop computer.

## Microprocessor-controlled ventilator

Our ventilator compensates for changes in the fresh-gas flow and for the compliance in the breathing system.

Pressure and spirometry data are clearly displayed on the touch screen. The eight ventilation modes are:

- Volume-controlled ventilation (VCV)
- Pressure-controlled ventilation (PCV)
- Synchronized intermittent mandatory ventilation (SIMV)
- Pressure support ventilation (PSV)
- Volume support ventilation (VSV)
- Pressure-regulated volume target (PRVT)\*
- Manual
- Spontaneous

## PRVT\* – Pressure-Regulated Volume Target

PRVT\* is a lung-protective ventilation mode that combines the advantages of volume-controlled ventilation (VCV) and pressure-controlled ventilation (PCV).

Optimum ventilation is achieved through inspiratory flow control, maintaining inspiratory pressure while the patient is undergoing anesthesia. The required tidal volume set by the operator is achieved by automatic, breath-by-breath pressure regulation.

## Electronic gas mixer

With a capacity of up to 20 liters a minute, the gas mixer includes electronic rotameters for oxygen, nitrous oxide, and air—an automatic interlock safety mechanism prevents simultaneous dosage of air and nitrous oxide. Thanks to our reliable hypoxic guard system, the oxygen/nitrous oxide mix will always contain at least 25% oxygen.

## Multigas monitor

The multigas monitor is available as an option for continuous measurement of oxygen, nitrous oxide, carbon dioxide, respiratory rate, and anesthetic agent, with automatic identification of agent type.

\* Option





# technology



# Integrated breathing

Forget about time-consuming, multiple-tube connections between the anesthesia machine, breathing system, and patient. Our integrated breathing system (IBS) integrates an ascending bag-in-bottle, patient circuit, and CO<sub>2</sub> absorber in one compact unit.

That means no tubing between the breathing system and machine and only two tubes—for inspiration and expiration—between the breathing system and patient. The manual bag connection is located under the APL valve. Setting up for a procedure is fast, and cleaning is easy. In less than sixty seconds the breathing system can be taken apart for cleaning, without any need of special tools. The foolproof design prevents reassembly errors after cleaning.

## Bag-in-bottle

The ascending bellows is designed to prevent air from being drawn into the breathing system in the event of a leakage. The capacity is up to 1500 ml, making it suitable for adults, pediatrics, and neonates.

## Valves

Yellow valve flaps allow visual supervision of inspiration and expiration. An APL valve is also integrated and valid in the manual and spontaneous modes.

## i-SORB absorber

Available in reusable or disposable versions, i-SORB minimizes the waste of unused soda lime thanks to its flow-optimized design. Soda lime capacity is 900 g. The absorber can be replaced while the machine is in operation.



# system



SIESTA i TS	
Dimensions (H x W x D)	1510 x 760 x 670 mm
Weight	140 kg
Fresh gas flow	Electronic flowmeters and flow control Total flow range: 0–20 L/min
Vaporizers	Backbar for two Selectatec vaporizers (German or British standard) with interlock safety mechanism
Integrated breathing system (IBS)	Hanging Insp./Exp. valve flaps Tool-free disassembly in less than sixty seconds Fresh gas introduced after Insp. valve Autoclavable
Absorber capacity	900 g
Ventilation modes	VCV, SIMV, PCV, PSV, VSV, PRVT* manual, spontaneous
Tidal volume	10 to 1500 ml 20 to 1500 ml
Respiration rate	4 to 80 bpm
I:E ratio	3:1 to 1:9,9
Electronic PEEP	4 to 20 hPa (cmH <sub>2</sub> O)
Inspiratory pressure	PCV 4 to 67 hPa (cmH <sub>2</sub> O) PSV 4 to 50 hPa (cmH <sub>2</sub> O)
AGSS	30 to 40 L/min
Ventilation measurements	Peak, Plateau, PEEP and Mean Pressure Patient compliance Tidal & minute volume Spirometry loop Respiration rate
Integrated multigas analyzer	Automatic agent ID CO <sub>2</sub> , O <sub>2</sub> , N <sub>2</sub> O measurements

\* Option

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**Philips Service**

Philips Anesthesia Care has a service portfolio that encompasses a range of standard service contracts along with scheduled preventative maintenance cycles to ensure that your equipment performs at optimal levels. In addition we offer a number of value-added services such as training provided by our clinical application specialists. For more information, please contact your Philips representative.

The Siesta i TS anesthesia machine was previously sold and marketed under the Dameca brand. As of March 2011, Dameca was acquired by Royal Philips Electronics

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