

## sana comfort 150 S und 250 S

The sophisticated medical ergometer of the latest generation for adipose patients and extended trainings



### APPLICATION AREA

Sana comfort 150 S and 250 S are comfortable and extremely robust seat ergometers. They are specifically designed for cardiovascular training and rehabilitation for obese patients. Thanks to the ideal and comfortable sitting position, sana comfort is the perfect ergometer for extended trainings.

### CONVINCING FEATURES

#### Convenient, almost noiseless unit

The load is independent of revolutions per minute and is controlled by use of a high-quality eddy current brake and permanent, computer-aided torque measurement. In combination with the optimal use of the flywheel mass, a pleasant pedalling sensation results, helping to fully exploit the patient's power reserves.

The state-of-the-art gear runs almost noiselessly, even at high speed.

#### Stable construction, individually configurable

The comfortable seat with high back rest is adjusted motor-driven so that the appropriate distance to the pedals can easily be set at the touch of a button. The back rest is adjustable in inclination so as to accommodate adipose patients and to allow comfortable pedalling. Handles at the front part of the ergometer facilitate mounting. The handles positioned parallel to the seat relieve the patient's arms during training. The construction is designed for patients weighing up to 250 kg.



Easy-to-use control panel, optionally with blood pressure measurement

Computer-controlled high-performance electronics are used for the control panel, which is integrated in the sana comfort control console. The high-resolution, backlit, graphic LCD display and the control elements are located at the front of the console. The control console can either be positioned with the display facing the patient or the user. A clearly visible LED indicator informing the patient of the speed is situated at the top of the console.

Sana comfort 250 S devices are equipped with an integrated blood pressure measurement unit, providing accurate measurement results despite the patient's movements during training. This is especially important when a patient's circulation parameters need to be monitored during ergometry.

#### Wide range of application in ergometry for cardiopulmonary diagnosis

The modern, processor-controlled electronics are designed for all common ways of load control. Ergometry measurements can easily be programmed for automated use. All operating steps are displayed in the menu navigation. However, an external PC program or an ergo-spirometry device can be used to control the ergometer and access the measurement data via RS-232 or USB interface.

In this case, the ergometer is operated automatically from the master device program. The current exercise and measurement data is displayed alpha-numerically as well as graphically on the LCD screen in all operational modes.



## Technical Specifications Sana comfort 150 S und 250 S

Special seat ergometer with optional blood pressure measurement

## Sana comfort 150 S and 250 S

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In accordance with DIN 13405 and DIN VDE 0750-238, respectively, where applicable

<b>Braking principle</b>	Computer-controlled brakes with permanent measurement of torque. Braking performance is independent of revolutions per minute
<b>Load range</b>	20 to 800 watts
<b>Range of revolutions</b>	30 to 130 rpm for pedals
<b>Load precision</b>	3 %, not less than 3 watts
<b>Load parameters</b>	1. According to the selected internal load program 2. Parameters from external master unit via interface, smallest resolution 1 watt 3. Manually, in 5 W and 25 W steps
<b>Load software</b>	5 freely programmable ergometry programs 1 automatically controlled pulse-steady-state program
<b>Time intervals</b>	1 min to 99 min
<b>Display</b>	Graphic LCD with 320 x 240 pixels, CCFT backlight
<b>Blood pressure measurement</b>	Indirectly, with a specific, modified measuring system based on R-R, and computer analysis including maximal suppression of artefacts during ergometry. Automatic deflation rate of 3 mmHg/pulse. Measuring range 40 to 300 mmHg.
<b>Pulse measurement</b>	With a blood pressure unit or an optional Polar pulse monitoring system; pulse rate 35 to 240
<b>Seat adjustment</b>	Continuously variable on a slope, special seat for heights between 150 and 210 cm, electric drive
<b>Maximal permissible patient weight</b>	250 kg
<b>Long-term accuracy</b>	Torque control according to weight
<b>Power supply</b>	230 VAC 50-60 Hz, 115 VAC 50-60 Hz
<b>Electric inputs/outputs</b>	RS-232 (galvanically isolated)
<b>Base dimensions</b>	40 x 130 cm
<b>Weight</b>	75 kg

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