

CARDIOLINE

ergoselect600

General overview

Constructed for a patient weight of up to 260 kg, the ergoselect 600 makes it possible to conduct exercise tests and cardiovascular training in severely obese patients as well.

Carefully thought-out details such as the 3-way adjustable backrest, special pedal shoes with adjustable pedal spacing and additional cushions that increase the distance between the pedal axis and seat surface even more enable an optimal adjustment to the individual patient.

At pedal speeds between 30 and 130 RPM and loads between 6 and 999 watt, the ergometer operates independent of the pedal speed.

The ergoselect600 has been designed to be used in exercise testing as well as for rehabilitation of

cardiac and cardiovascular patients according to the instructions the user manual.



Main features

- Braking system, computer-controlled eddy current brake with torque measurement; speed independent to DIN VDE 0750-0238
- Load Increments user programmable
- Internal Protocols Control Terminal P:
 - 5 fixed incremental exercise test protocols (e g WHO)
 - 10 user-programmable protocols
 - manual load control
- Control Terminal K:
 - 5 fixed incremental exercise test protocols (e g WHO)
 - 10 user-programmable protocols
 - manual load control
 - 4 fixed test protocols (e g PWC)
 - 10 user-programmable training protocols

Technical specifications

Operating Mode.....	continuous operation
Power.....	100 - 240 V / 50 - 60 Hz (60 VA max) fuses: 2 x 1,25 max. 60 VA
Fusibili di protezione.....	2 x 1,25 A T
Load Range.....	6 - 999 watt, speed independent
Speed Range.....	30 to 130 RPM
Deviation of measured load.....	to DIN VDE 0750-0238 max. \pm 5% 25 e 400 Watt max. \pm 3 Watt 25 e 100 Watt
Load Increments.....	user programmable
Permitted Patient Weight (Chair).....	260 kg
Seat Width.....	54 cm
Seat Distance Adjustment.....	locking, for patient height between 150 and 210 cm
Crank Length.....	170 mm (cranks with adjustable length are optional accessories)
Display.....	display LCD: 68 x 34 mm / 128 x 64 pixel (Mod. P) 115 x 88 mm / 320 x 240 pixel (Mod. K) additional LED display for speed (RPM)
Interfaces.....	PORT 1 (DSUB-9-pole): digital remote control RS232 by PC or ECG recorder, remote start of ECG recorder (optional) USB: digital remote control by PC (driver required)
Dimensions, Weight.....	length: 165 cm / width: 75 cm / height: 108 cm weight: approx. 86 kg
Safety Standard.....	DIN EN 60601-1, DIN EN 60601-1-2, DIN VDE 0750-238
Protection Class / Degree of Protection.....	II / B (ai sensi della DIN EN 60601-1) BF (with NIBP module)
MDD Class.....	Class IIa 93/42 CEE
Artifact rejection.....	Class B conformity to: DIN EN 55011 / 5.0 - DIN EN 60601-1-2
Environment.....	operation: temperature: +10 to +40 °C rel humidity: 30 to 75%, no condensation atmospheric pressure: 700 to 1060 hPa transport and storage: temperature: -20 to +70 °C rel humidity: 10 to 90%, no condensation atmospheric pressure: 500 to 1060 hPa

NIBP pressure module (option)

Measuring Method:.....	auscultatory method, oscillometric; for resting BP, the results from both measurements are compared for plausibility
Measuring Range.....	systolic pressure: 40 to 280 mmHg diastolic pressure: 40 to 280 mmHg pulse rate: 35 to 230 P/min
Measurement Error, systematic.....	systole: +/- 3 mmHg diastole: +/- 3 mmHg (temperature: +15 +25 °C)
Standard deviation (clinical trial).....	systole / diastole: 7 mmHg (max)
Inflation Pressure.....	300 mmHg max ; during inflation the inflation pressure automatically adapts to patient's BP
Inflation Rate.....	between approx 6 seconds (to 140 mmHg) and approx 18 seconds (to 300 mmHg)
Max. Cuff Pressure.....	300 mmHg
Cuff Deflation Method.....	pulse-dependent deflation rate approx 3 mmHg/beat or approx 3 mmHg/s
Calibration.....	calibration with external pressure meter
Artifact Rejection.....	automatic artifact rejection and comparison of the resting BP readings from both methods for plausibility
Manufacturer.....	Ergoline GmbH.