

CARDIOLINE

XR100+

XR100+ is a robust and reliable cycle ergometer, which is characterized by its high performance during the stress test and the ease of use. The handlebar and saddle have ample adjustment possibilities and a wide range of accessories is available.

The ergometer is equipped with a dual display, one for the operator to keep the situation under control and one for the patient to maintain the correct pedaling frequency. Thanks to the function keys and the graphic display, the operator console also allows the use of pre-set internal protocols or manually manage the load, as well as remote control via Cardioline Cubestress.

The **XR100BP+** version integrates a high quality oscillometric blood pressure monitor, automatically managed by Cubestress.

XR100+

Technical features

Ergometer

Model	Modular ergometer system XR100+
Operating mode.....	Continuous operation
Power supply.....	from 100 to 240 V / 50 to 60 Hz
Absorbed power	max. 60 VA
Principle of brake.....	computer-controlled electrodynamic brake with torque measurement; independent of the speed in accordance with DIN VDE 0750-0238
Load variation range.....	from 6 to 999 Watt, independent of the number of revolutions
RPM range	from 30 to 130 rpm
Deviation of the absorbed power	according to DIN VDE 0750-0238
Load stages.....	configurable as desired
Max patient weight	160 kg
Saddle height adjustment	continuous, for height ranging from 120 to 210 cm; manual adjustment of saddle height
Handlebar adjustment	for stature between 120 to 210 cm, 350° continuously adjustable handlebar, fixed handlebar column
Crank length.....	170 mm (possibility to order optional cranks with adjustable length)
Display	Display LCD Display: 93 x 70 mm / 128 x 64 pixels, 7-segment LED display as additional speed indicator
Internal protocol.....	5 fixed protocols and 10 protocols programmable by the operator; manual load controls
Interfaces	USB digital connection; RS232 digital connection + remote control
Dimensions and weight	Length: 1030 mm Width: 490 mm (Handlebar width: approx 530 mm) Height: from 1140 mm to 1400 mm Weight: approx 66 kg
Safety rules	DIN EN 60601-1, DIN EN 60601-1-2, DIN VDE 0750-238
Protection class	II / B (according to DIN EN 60601-1)
MDD classification.....	Classe IIa according to 93/42 CEE
Radio interference suppression	Limit class B according to DIN EN 55011 / 5.0 DIN EN 60601-1-2
Environmental conditions.....	<i>Operation:</i> Temperature: from +10 to +40 °C



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Relative humidity: from 30 to 75%, without condensation
Pressione atmosferica: da 800 a 1060 hPa
Transport and storage:
Temperature: from -20 to +70 °C
Relative humidity: from 10 to 95%, without condensation
Atmospheric pressure: da 500 a 1060 hPa:

Blood pressure module

Measurement principle	Korotkoff method, oscillometric, comparison of plausibility of both measurements for resting measurement
Range	Systolic: from 40 to 280 mmHg Diastolic: from 40 to 280 mmHg Pulse: from 35 to 230 P/min
Errors	Measurement errors: +/- 3 mmHg Measurement resolution: +/- 1 mmHg
Pumping pressure	max. 300 mmHg, automatic adaptation of inflation pressure during the pumping phase
Pumping speed	between about 6 sec (at 140 mmHg) and about 18 sec (300 mmHg)
Max cuff pressure	300 mmHg
Pressure discharge method	Discharge rate depending on pulse of around 3 mmHg / pulse or about 3 mmHg / sec
Calibration	Calibration with external pressure measuring device
Artifact suppression	Automatic

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Accessories

Code	Description
69400074	Band sub-frame roll 50 rips
63090260	Horizontally adjustable saddle support
63090261	Pediatric saddle
63090279	RS232 connection cable
63090262	Agonistic saddle
63090263	Horizontally adjustable pediatric saddle support
63090264	Non-adjustable pedals
67019340	Gas saddle adjustable in height
67019341	Motorized saddle adjustable in height
67019342	Adjustable motorized saddle and handlebars
67019343	Adjustable stretcher for pedals
67019346	Handlebar for Triathlon

