

The Schwarzer Cardiotek **evolution** compact represents the entry to the next generation of hemodynamic monitoring stations.

The new system incorporates a **streamlined amplifier** with vital sign measurements and a continuously operating PC (24/7).

evolution compact is designed as a starter model into modern hemodynamics that offers full functionality and which is space-saving and flexible.



Features Overview

Vital signs

Left/ right heart hemodynamic recording and analysis system with the following functions:

- Automated recording, visualization and analysis of 12-lead ECG and 4 intracardiac blood pressure channels
- Measurement and calculation of hemodynamic parameters by applying automated trace detection and respective algorithms
- Very high number of configurable measurement locations
- Intuitive and efficient handling

'Zero footprint' design

As hospitals strive towards the most efficient and cost effective use models, many interventional lab spaces are expanding the range of procedures performed in the available lab spaces. This often requires new equipment, which may lead both the procedure and control rooms becoming cluttered working environments.

evolution compact is designed with the modern, modular cathlab in mind. The streamlined amplifier can be mounted at or under the patient table leaving the patient area uncluttered and unobstructed, while the PC is placed 'out of the way' in the technical room, freeing up leg space in the control room, contributing to a more comfortable and efficient work environment.

Comprehensive Calculations

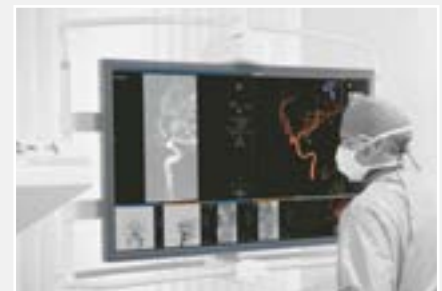
Pressure gradients, cardiac output, vascular resistance, valve opening areas, systemic and pulmonary flows with shunt calculation, body surface and more.

Curve segments may be automatically or manually measured as desired. Pressure waveforms are reliably overlaid, even during an arrhythmia, enabling a smooth 'pullback' analysis.

Standardized Interfaces

- Patient data to X-ray modality via DICOM WLM
- Transfer of dose information from X-ray via DICOM MPPS

We support installations of all common X-ray equipment suppliers



No matter which X-ray system you select - choose **evolution**

IT components

- 24" TFT monitors
- Disinfectable keyboard
- Disinfectable mouse
- 19" PC (64bit, Windows 10 IoT)



Integrable Amplifier

Size 240 x 125 x 52 (mm)
Weight 920g



Surface ECGs

Number of Inputs 10
Sampling rate 1000 Hz
Leads I, II, III, aVL, aVR, aVF V1-V6
QRS amplitude 0.15 ... 10mV

Invasive blood pressure

Number of amplifiers 4 channels
Sampling rate 500 Hz
Display scales 10, 25, 50, 100, 200, 400 mmHg

Analog Outputs

2 outputs
Signal range +/- 5 V
QRS trigger 1 - 25V; max delay 35 ms

Options

Cardiac Output

Sampling rate 250 Hz
Resolution 0.01 l/min
Measurement method Thermodilution

SpO2

0 -100% measurement range

Resolution 1%

NiBP

SYS 25 to 290 mmHg
DIA 15 to 250 mmHg
Pulse 25 to 250 mmHg
Resolution 1 mmHg

Standards

IEC 60601-1:2015
IEC 60601-2-27:2014
IEC 60601-2-34:2014

Patient safety

Protection Class II, Applied Parts Type CF (according to IEC 60601-1)

Start with evolution

At a glance:

- Vital parameter
- Comprehensive calculations
- ‚Zero-footprint‘ design
- Standardized interfaces

