



Obstetrical Care



# Avalon FM20 Antepartum and FM30 Intrapartum

Compact, versatile fetal and maternal monitoring

**PHILIPS**

# Reliable monitoring throughout the



Philips Medical Systems has a long history in obstetrical care that has earned the trust of care teams and parents.

# obstetrical care continuum

## Built on an obstetrical care legacy

Philips Medical Systems has a long and proud history in obstetrical care technologies — offering fetal and maternal monitors, obstetrical information systems, and monitors and measurements used during routine and high-risk deliveries. Since 1968, obstetrical care teams have used our care solutions in hospital labor and delivery departments and obstetricians' offices around the world. We've earned the trust of clinicians and expectant parents through decades of innovation and reliability, beginning with our Hewlett-Packard roots.

The Avalon portfolio has high-tech and high-touch performance for the care team and patient, including triplet monitoring capability,\* a Philips innovation.



Avalon FM30 offers meticulous care from the onset of contractions through labor and delivery.



## Avalon FM20 Antepartum Monitor for attentive care and reassurance before childbirth and multiples monitoring capability\*

Avalon FM20 Antepartum offers fetal and maternal monitoring for obstetrical departments in offices, clinics, and hospitals. It integrates monitoring of maternal blood pressure and pulse rate with measurement of multiple fetal heart rates\* and uterine activity. Efficiently designed, it is compact and easy to use and has power and performance features, including high-quality ultrasound.

New high performance functionality in the FM20 includes the capability to monitor triplets\* with a sophisticated three-channel ultrasound tracing capability and coincidence detection between all heart rate channels.

Data from the Avalon FM20 can be automatically transmitted to the Philips OB TraceVue obstetrical information system.

## Avalon FM30 Intrapartum Monitor for enhanced care through labor and delivery, with maternal vital signs

Avalon FM30 covers patients from the onset of contractions through final stages of delivery with its full set of external and internal fetal parameters, such as ultrasound and direct fetal heart rate, Toco, and intrauterine pressure. It provides monitoring of maternal blood pressure, heart rate and the maternal ECG wave.

The FM30 includes all the new high performance functionality of the FM20, plus maternal pulse oximetry.

Fully integrated within Philips obstetrical information continuum, data and traces from the Avalon FM30 can be automatically transmitted to OB TraceVue, where they become part of the overall patient record.

\*Triplet monitoring capability is not available in the US.

# High-tech and high-

Avalon FM20 and FM30 fetal monitors offer enhanced user functionality and documentation capabilities. They are compact, ergonomic, and easy to use.

Toco activity or intrauterine pressure monitoring.

Folding screen for optimal viewing in various mounting settings.

Ergonomic design projects a high-tech image to expectant parents with high-tech performance for the care team.

Maternal pulse oximetry (FM30 only)

Maternal non-invasive blood pressure

With capability for four fetal transducer connectors. Regardless of which plug is used, the system automatically recognizes each specific transducer:



# touch performance for the care team and patient



**Touch screen** with intuitive user interface for ease of use.

**Large numeric displays** ease readability.

**User-configured notes** for standardization of patient data and documentation.



**Compact design** is easy to move if needed, and screen folds down for wall mounting.

**Cross Channel Verification**, a Philips safety feature, reduces the risk of confusing maternal and fetal heart rate signals. Cross Channel Verification alerts when more than one heart rate channel processes the heart rate signal from the same source.

**Audible alert** of fetal bradycardia and tachycardia for advance warning of changes in fetal condition.

**Built-in thermal paper recorder** provides documentation of fetal traces and maternal parameters, together with user-defined annotations on an efficient and easy to read documentation quality 15.2cm (6") paper strip. The recorder can also be set to run at high speed to record a 6 second maternal ECG strip in real time

# Smart transducers

## for ultrasound, ECG, and Toco monitoring

Our new soft and smooth transducers are also “smart.” Once plugged in, they are automatically recognized by the system. The Transducer Finder feature lights the correct transducer when a heart rate display is selected. This is especially useful for monitoring multiples.

Philips transducers use seven crystal ultrasound technology which provides homogeneous distribution of ultrasound energy. This results in equal signal distribution throughout the ultrasound coverage area.



Combined Toco and ECG, for intrapartum use, feeds the direct ECG signal into the fetal monitor via the Toco cable, eliminating the need for an additional cable connection and reducing cable clutter.

Disposable, soft abdominal belt, one of several belts Philips offers, provides latex-free comfort for mother-to-be.

Ergonomic design is smooth to the touch



**Transducer Finder feature** is useful for monitoring of multiples. Select one fetal heart rate on the monitor display.

The **Transducer Finder** indicator lights up bright blue on the corresponding transducer.

# Easy to read display

**Fetal heart rate 1**

**Toco activity or intrauterine pressure**

**Fetal heart rate 2**

**Audible fetal heart tones** assist with transducer positioning. Volume adjustable to allow parents to listen.

Smith, Carla      23 Jun 8:50  
INOP Only

**FHR1** 125      **Toco** 28      **FHR2** 118

**NBP** Auto 15 min 08:45 **ECG**      **HR**  
121/68      83

**SpO<sub>2</sub>** 98

**Silence**      **Toco Baseline**      **Start/Stop**      **Paper Advance**      **Enter Notes**      **Main Screen**

Signal quality is shown with indicators on each fetal heart rate channel, to help you optimize the transducer's position (separate indicator for each fetal heart rate).

Touch screen operation. Fetal and maternal (optional) patient information is displayed in numerical or graphical form on a 16.5cm. (6.5") TFT color screen.

Toco baseline adjust and paper advance are accessible on the initial user menu.

Maternal ECG wave for quick assessment of maternal heart rhythm (FM30 only).

Function key allows you to toggle through menus for expanded functionality.



**Philips labor and delivery supplies** are designed for optimal performance. Fetal monitoring supplies include fetal scalp electrodes, abdominal belts, paper, and ultrasound gel.

SpO<sub>2</sub> is only available on the FM30.

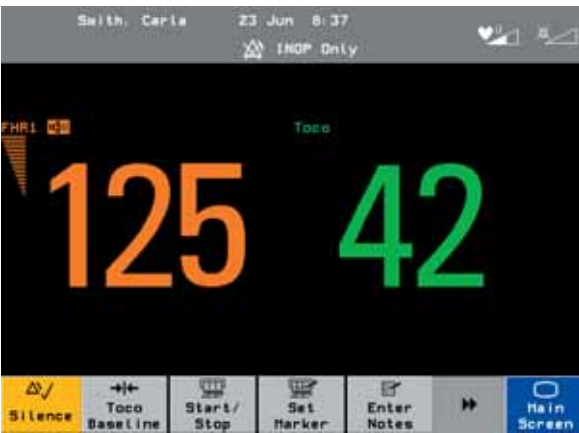
# Enhanced user functionality and documentation capabilities



New functionality in the FM20 and FM30 includes the capability to monitor triplets.\*



Automatic screen layout for optimal screen size.



Large numeric displays ease readability.



Notes window with user-configured notes for standardization of data and easy trace annotation.



Keyboard entry screen with large display for ease of use.



Setup window with touchscreens and an intuitive user interface.

\* Not available in the US.



Patient information from Avalon FM20 and FM30 fetal and maternal monitors becomes part of the overall patient record

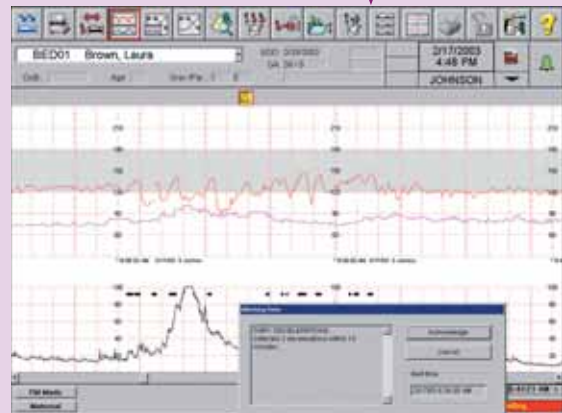
Gathering data



Surveillance, Alerting, Charting, and Storage



Avalon FM20 or FM30



OB TraceVue

**Data transmission from Avalon FM20 and FM30 to OB TraceVue**

Philips obstetrical care fetal and maternal monitors and obstetrical information system span the obstetrical care continuum – from the earliest antepartum visits through discharge and even post-partum follow-up visits. Our technologies are designed to contribute to improved staff efficiency and to provide the significant benefits of a single, continuous patient record.

**OB TraceVue obstetrical department information system**

OB TraceVue offers patient surveillance, alerting, documentation, and storage functionality to provide comprehensive information management across the obstetrical care continuum – from the first antepartum

visit to delivery to post-partum, and follow-up visits across multiple pregnancies. Accessible wherever patient information is needed – from patient bedside and delivery room, central station, staff lounge, or obstetrician’s home or office – OB TraceVue delivers comprehensive information and improves efficiency, allowing care teams to focus more attention on patients.

Synchronized patient name, bed labeling, and time synchronization between OB TraceVue and all Philips fetal monitors make significant contributions to effective clinical, administrative, regulatory, legal, and archival activities.



		FM2	Avalon FM20	Avalon FM30	Series 50 XM
External fetal measurements	Single ultrasound fetal heart rate	✓	✓	✓	✓
	Twin ultrasound fetal heart rate	✓	✓ <sup>1</sup>	✓	✓
	Triplet ultrasound fetal heart rate*	✗	✓ <sup>2</sup>	✓	✗
	Toco	✓	✓	✓	✓
	Precision track and hold	✗	✓	✓	✓
Internal fetal measurements	DECG	✗	✗	✓	✓
	IUP/TTUIP	✗	✗	✓ <sup>3</sup>	✓
Integrated maternal	NIBP	✗	●	●	●
	MHR/MECG	✗ / ✗	✓ / ✗	✓ / ✓	●
Other features	Battery operation	✓	✗	✗	✗
	Built-in / external recorder	✗ / ●	✓ / ✗	✓ / ✗	✓ / ✗
	Cross channel verification	✗	✓	✓	✓
	Direct system interface to OB TraceVue	✓	●	●	✓
	Fetal movement profile	✗	✓**	✓**	✓**
	Remote transmission via phone line	✓	✗	✗	✗

1 Requires optional 2<sup>nd</sup> US transducer.  
 2 Requires optional 2<sup>nd</sup> + 3<sup>rd</sup> US transducer.  
 3 Requires optional patient module.  
 \* Not available in the US.  
 \*\* Not recommended for intrapartum applications.

✓ Standard    ● Optional    ✗ Not available

**Choose the mounting option to suit your care environment**



862198 Avalon FM20  
 862199 Avalon FM30

**Roll stand** enables the Avalon FM20 and FM30 to be efficiently wheeled from room to room.



**Space-saving cart** designed with ergonomic features.



**Wall mount** when space is at a premium.



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