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.
Avalon FM20 and FM30

* Triplet monitoring capability is not available in the US.

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.

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.
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-touch 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.

Ergonomic design is smooth to the touch

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

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

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.

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

SpO₂ 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.
Gathering data

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

Surveillance, Alerting, Charting, and Storage

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.
<table>
<thead>
<tr>
<th>Feature</th>
<th>FM2</th>
<th>Avalon FM20</th>
<th>Avalon FM30</th>
<th>Series 50 XM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>External fetal measurements</strong></td>
<td></td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Single ultrasound fetal heart rate</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Twin ultrasound fetal heart rate</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Triplet ultrasound fetal heart rate</td>
<td>✗</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Toco</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Precision track and hold</td>
<td>✗</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td><strong>Internal fetal measurements</strong></td>
<td></td>
<td>✗</td>
<td>✗</td>
<td>✔</td>
</tr>
<tr>
<td>DECG</td>
<td>✗</td>
<td>✗</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>IUP/TTUIP</td>
<td>✗</td>
<td>✗</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td><strong>Integrated maternal</strong></td>
<td></td>
<td></td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>NIBP</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
<td>✔</td>
</tr>
<tr>
<td>MHR/MECG</td>
<td>✗ / ✗</td>
<td>✔ / ✗</td>
<td>✔ / ✗</td>
<td>✔ / ✗</td>
</tr>
<tr>
<td><strong>Other features</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery operation</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Built-in / external recorder</td>
<td>✗ / ✗</td>
<td>✔ / ✗</td>
<td>✔ / ✗</td>
<td>✔ / ✗</td>
</tr>
<tr>
<td>Cross channel verification</td>
<td>✗</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Direct system interface to OB TraceVue</td>
<td>✔</td>
<td>✗</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Fetal movement profile</td>
<td>✗</td>
<td>✔</td>
<td>✗</td>
<td>✔</td>
</tr>
<tr>
<td>Remote transmission via phone line</td>
<td>✔</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
</tr>
</tbody>
</table>

- ✔ Standard
- ✗ Optional
- ✗ Not available

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

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

- **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.

© 2006 Koninklijke Philips Electronics N.V.
All rights are reserved.
Philips Medical Systems Nederland B.V. reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.