



# The intelligent solution

**Philips Respironics Sleep Therapy System** uses advanced intelligence to deliver optimum care while making patient management easier.

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RESPIRONICS

## “The thinker”

Beyond anything previously possible, this new system is the true definition of intelligent therapy. Through advancements in software algorithms, humidification management, and the marriage of proven technologies, the Philips Respironics Sleep Therapy System thinks for itself, carefully monitoring your patient and recognizing when therapy needs are changing. Armed with that knowledge, it then provides you with the intelligent information you need for improved patient care.

### **Our new system:**

- Knows when, why and how changes should be made to consistently and continually provide optimum therapy
- Knows how to maximize patient comfort for improved long-term compliance
- Knows what essential information you need and how to get it to you in a form you can use

It's a thinking platform that gives you more control. And one more way we're working with you to arrive at better solutions for better living.

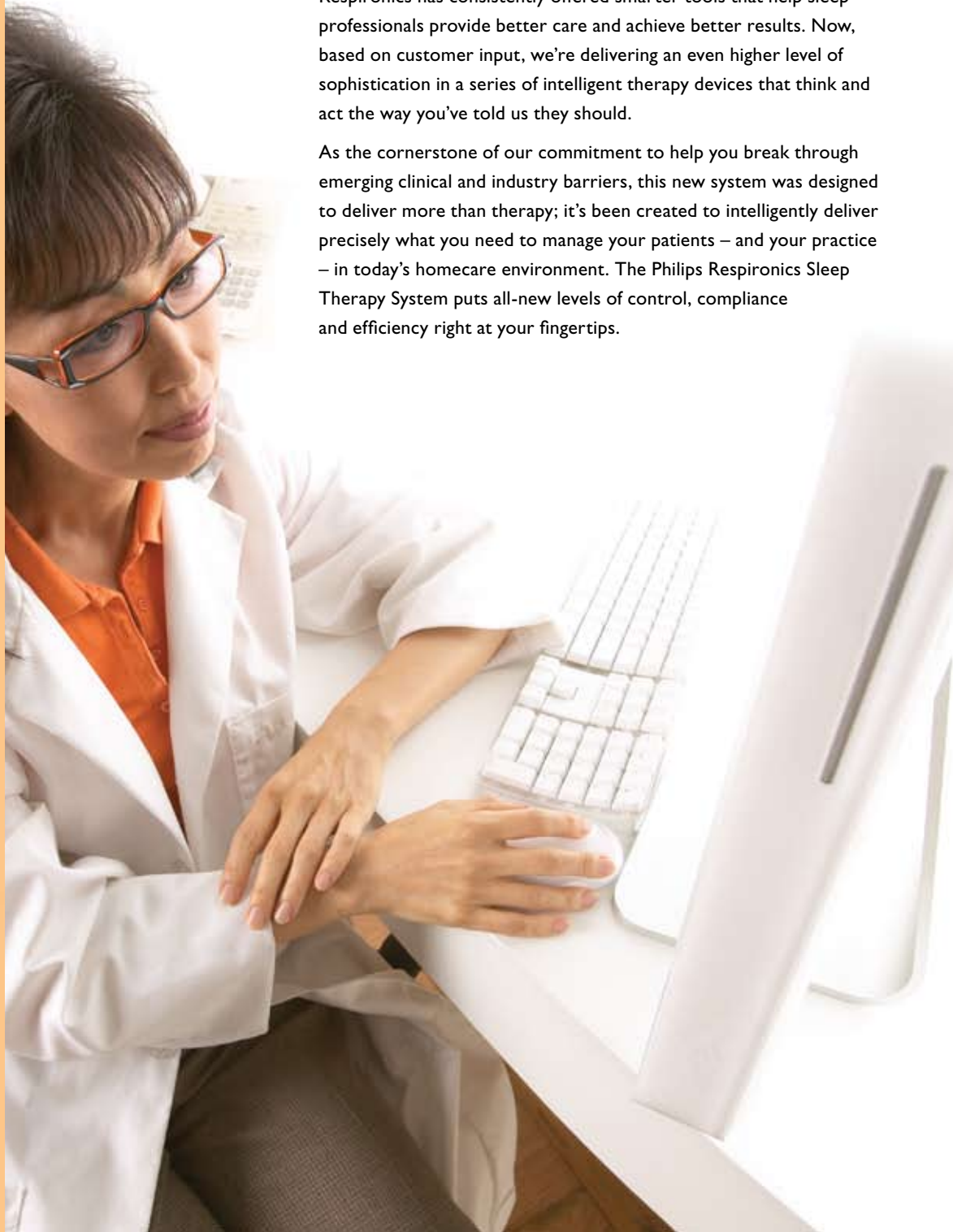


# One intelligent package

The Philips Respironics Sleep Therapy System brings key intelligent technologies together in one device.

Respironics has consistently offered smarter tools that help sleep professionals provide better care and achieve better results. Now, based on customer input, we're delivering an even higher level of sophistication in a series of intelligent therapy devices that think and act the way you've told us they should.

As the cornerstone of our commitment to help you break through emerging clinical and industry barriers, this new system was designed to deliver more than therapy; it's been created to intelligently deliver precisely what you need to manage your patients – and your practice – in today's homecare environment. The Philips Respironics Sleep Therapy System puts all-new levels of control, compliance and efficiency right at your fingertips.





### **Intelligence runs in the family.**

Many of the enhanced technologies that make the Philips Respironics Sleep Therapy System so smart have been clinically proven in the Respironics products you already know and trust. Our renowned Flex technologies, Digital Auto-Trak algorithm and Encore reporting system redefined industry standards. These, along with other technologies, have been enhanced for even greater functionality and intelligence in our new Sleep Therapy System.



## Five components of intelligent therapy

### **System One humidity control and Dry Box technology**

**Better humidification management to prevent rainout and water damage.**

Even in changing environmental conditions, consistent humidification levels are preserved throughout each night thanks to our advanced humidity control technology. By analyzing ambient temperature, relative humidity and patient flow, the device delivers optimum humidity – and ultimate comfort – to the patient while also dramatically reducing rainout. Our new Dry Box technology assures the humidifier's water source is isolated from the inner workings of the device during any normal and most uncommon conditions.

### **System One resistance control**

**Optimized pressure delivery, no matter which mask is used.**

System One Resistance Control achieves complete system comfort by enabling the device and mask to work optimally together. Through simple settings, the technology instructs the device to compensate for variable resistance characteristics related to different masks. The result is synchronous pressure delivery and the assurance patients can enjoy the full benefits of our Flex comfort technologies no matter which mask is used.

### **Advanced event detection**

**Identification of complicated and changing conditions that may indicate alternative therapy.**

We've built in more device intelligence so that you can make the most informed decisions possible. Our new sleep system addresses advanced sleep assessment parameters, including AHI, leak, flow limitation and RERAs to provide optimum therapy for obstructive sleep apnea (OSA). With our new system, events can now be verified by looking at detailed patient flow waveform data captured by the device. But the real advancement is its ability to point out when the patient is experiencing symptoms beyond classic OSA. With intelligent technology that can identify conditions such as clear airway apneas and periodic breathing, the system immediately indicates the potential need for specialized therapy. That means the care team will have the ability early on to identify different treatment that may be needed.

### **Flex Family technologies**

**Improved patient comfort with proven pressure relief.**

Our natural and clinically-proven technologies that enhance traditional pressure therapy – C-Flex, Bi-Flex, A-Flex, and now C-Flex+ in our fixed-CPAP mode advanced units – are an excellent way to establish improved patient comfort, and increased compliance. Thanks to our advanced Digital Auto-Trak algorithm that detects the onset of inspiration and exhalation, our flex technologies deliver just the right pressure relief for every breath, making it easier for patients to adapt to therapy. Each Philips Respironics Sleep Therapy System device with a Flex option also has an on-board Flex Demo mode to allow patients to feel the difference for themselves. It's as easy as pressing a button.

### **Encore data management and reporting**

**Intelligent patient management for improved compliance.**

The best intelligence is only valuable if it's easily accessible. That's why we've made sure vital patient information is available through multiple options of data transfer and reporting including memory cards and modems.\* Our new devices now include on-board data memory. Putting more patient intelligence in your hands is a key component of effective patient therapy and compliance management.

\*Not available in all countries.

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# Comfort and control

**System One Humidity Control and Dry Box** enhance patient comfort and device performance.



Delivering consistent humidity levels while establishing reliable water management adds up to improved patient compliance and fewer callbacks.

## **System One Humidity Control**

System One Humidity Control has been designed with enhanced intelligence to establish optimum patient comfort and device performance. Patients select one of five settings to receive a consistent delivery of relative humidity at the mask that meets their personal needs.

Using new and advanced sensing technologies, System One Humidity Control closely monitors room temperature, room humidity, and flow to determine what is required to maintain the patient-selected relative humidity level – even when environmental conditions change. By controlling relative humidity output at the mask, System One Humidity Control can prevent rainout. With such intelligent control, our other comfort technologies, such as Flex, perform at their peak, providing maximum comfort and encouraging long-term compliance.

## **Dry Box technology**

Through a combination of our cleverly-designed water chamber plus the advanced new Dry Box design, the risk of water ingress into the device is virtually eliminated – and so are the related callbacks. Even a fully-filled\* water chamber can be tilted and even turned upside down without leaking back into the device. Should any water manage to escape the chamber, the Dry Box prevents it from entering the device.

\* Filled to "FULL" indicator line

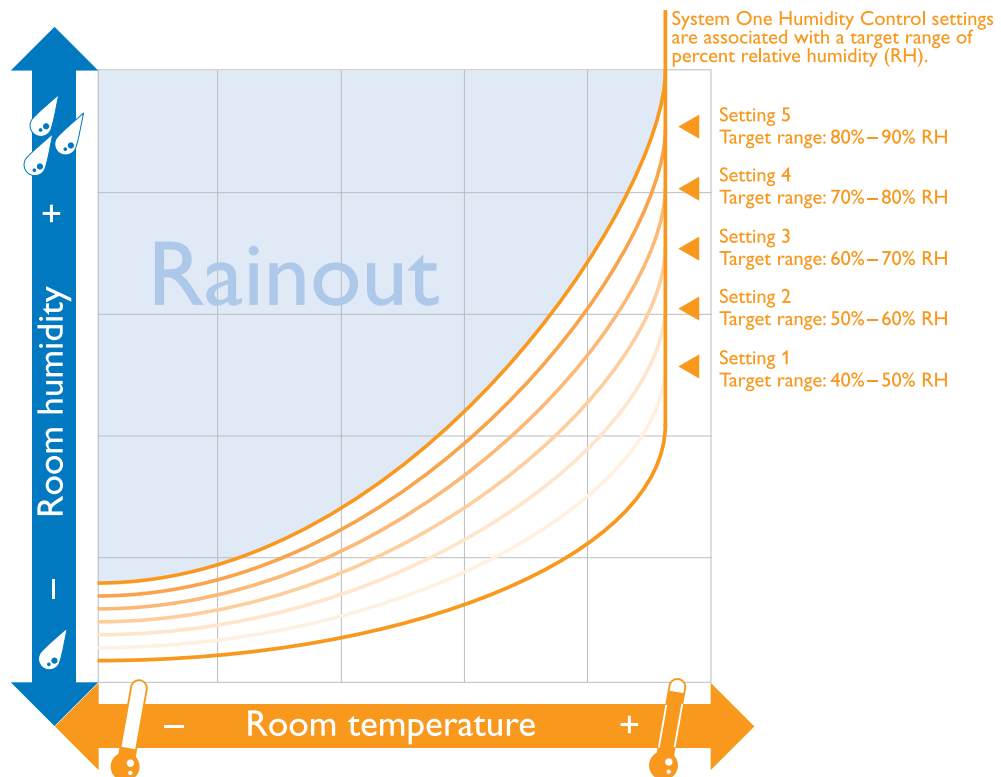
## **New Dry Box technology keeps water only where needed**



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# Breakthrough technology that eliminates rainout



- System One Humidity Control prevents rainout by maintaining a consistent mask humidity.
- Patients choose the mask humidity setting (1 – 5) that is most comfortable for them.
- System One Humidity Control maintains a consistent mask humidity by monitoring and adjusting for changes in **room temperature** and **room humidity**.
- Other manufacturers' devices only monitor, and adjust for, room temperature; as a result, rainout may occur.

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# Advance notice

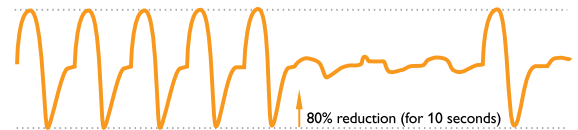
Advanced event detection keeps caregivers informed about patient therapy condition.



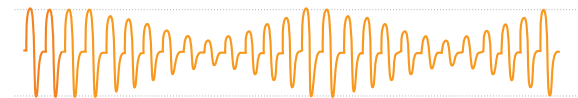
Detecting patient events and notifying the care team of required therapy adjustments assures optimal patient care.

Our new advanced detection algorithm builds on the clinically-proven Respironics event detection technology to create even greater device intelligence. In addition to monitoring the ongoing effectiveness of CPAP therapy, our new advanced event detection distinguishes obstructed airway (OA) apneas from clear airway (CA) apneas and informs you when a more advanced therapy device may be called for. The algorithm also automatically recognizes and reports when periodic breathing conditions such as Cheyne-Stokes respiration exist, allowing the care team to identify potential related comorbidities in a timely manner.

With our new ability to display patient flow, medical professionals can better assess patient conditions and needs. It's an intelligent system that gives you the advance notice you need to better manage your patients and your business.



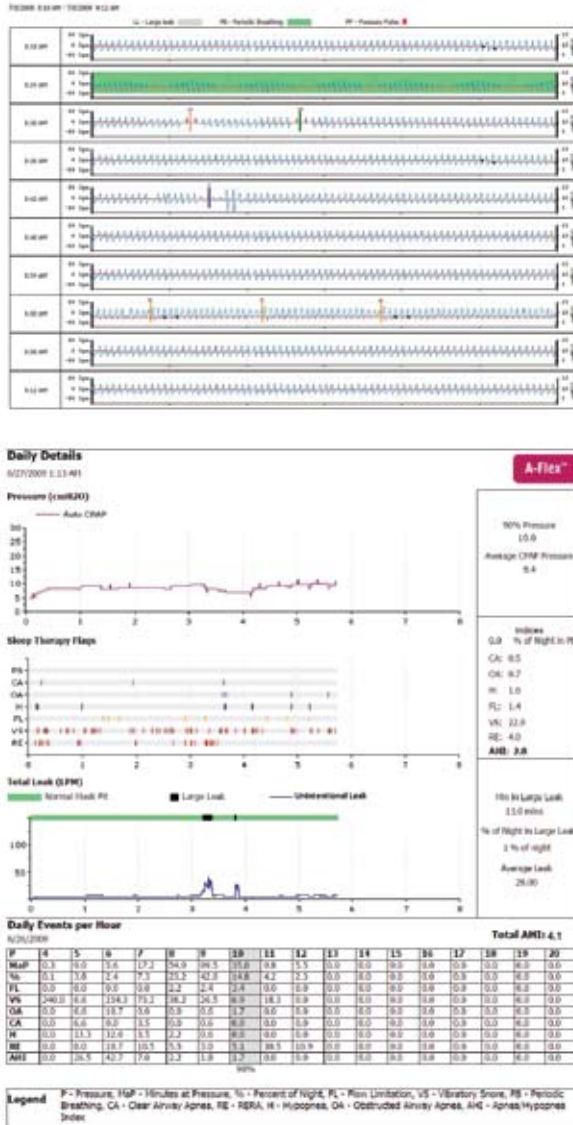
Most devices can only determine if an apnea has occurred. Our new advanced detection is the only technology that can determine if the patient's airway was open or closed during the apnea. After several seconds of significant flow reduction, the device delivers test pressure pulses and determines the airway to be clear if this pulse generates a significant amount of flow. This is reported as a clear airway apnea.



Periodic breathing, such as Cheyne-Stokes respiration, is recognized by a persistent waxing and waning breathing pattern. Periodic breathing is commonly associated with cardiac issues and may suggest a more serious patient condition. Advanced event detection provides the care team with information that can be used to identify potential patient complications.

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Our new **Patient Flow & Event** report enables you to view on a weekly basis every breath your patient takes. The Patient Flow & Event report provides critical details that help you accurately identify and assess patient sleep conditions. As illustrated, patient data is highlighted with specific colors and labels for easy identification. This data includes patient pressure, large leak, and events such as periodic breathing, obstructed airway apneas, clear airway apneas, hypopneas, and more. The Patient Flow & Event report will display one night of patient flow data for every seven days of therapy sessions and is accessed through our Encore systems via SD cards or modems.\*

Our **Encore data management systems** have been enhanced to include all new events on the Daily Detail and Long Term Trends reports as well as our new Patient Flow & Event report – all available via an SD card or modem.\* With our improved reporting capabilities, the entire care team can more effectively manage their sleep therapy patients' needs.

Together, the Philips Respironics Sleep Therapy and Encore patient management systems can detect, respond and report on important events that impact the comfort and efficacy of a patient's sleep therapy.

\* Not available in all countries.

Advanced event capabilities for REMstar and BiPAP Pro and Auto devices						
Events	REMstar Pro and BiPAP Pro			REMstar Auto and BiPAP Auto		
	Detect	Respond	Report	Detect	Respond	Report
Periodic breathing	✓	N/A	✓	✓	N/A	✓
Clear airway apnea	✓	N/A	✓	✓	N/A	✓
Obstructed airway apnea	✓	N/A	✓	✓	✓	✓
Hypopnea	✓	N/A	✓	✓	✓	✓
RERA	✓	N/A	✓	✓	✓	✓
Flow limitation	✓	N/A	✓	✓	✓	✓
Vibratory snore	✓	N/A	✓	✓	✓	✓
Large leak	✓	N/A	✓	✓	✓	✓

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# Proven flexibility

The Philips Respironics Flex Family of technologies keeps adjusting to meet patient and professional needs.



Our natural and clinically-proven technologies that enhance traditional pressure therapy – C-Flex, Bi-Flex, A-Flex, and now C-Flex+ in our fixed-CPAP advanced units – are an excellent way to establish improved patient comfort and increased compliance.

The Flex Family of technologies is a smarter therapy choice thanks to our advanced Digital Auto-Trak algorithm. It is intelligent enough to detect the onset of inspiration and expiration – to deliver the right amount of pressure relief at just the right time – making it easier for patients to adapt to therapy.

#### **Find the right choice for your patient.**

Each Philips Respironics Sleep Therapy System device has an on-board Flex Demo mode to allow patients to feel the difference for themselves. It's as easy as pressing a button.

#### **A promise of performance.**

Our Flex Promise Program promises that if any patient is noncompliant on C-Flex or A-Flex technology, upon return of the unit with C-Flex or A-Flex technology, we will provide a 100% credit of the corresponding unit purchase price to the homecare provider to be applied toward the purchase of a Respironics bi-level OSA device with Bi-Flex. Some restrictions apply.

#### **Smarter patient care.**

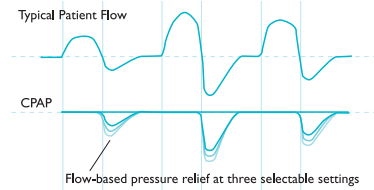
#### **Smarter business.**

As the cornerstone of our commitment to help you break through emerging clinical and industry barriers, this new system from Philips Respironics has been designed to deliver much more than effective therapy; it's been created to bring all-new levels of control, compliance, and efficiency to you with less complexity. Clinical studies show patients on Flex use their therapy on average more than four hours per night at both 30 and 90 days compared with an average of less than four hours per night when using traditional CPAP.<sup>1</sup> In the end, we hope you'll agree that we've achieved our mission: to create a system that is simply brilliant.

<sup>1</sup> Aloia, M.S., et al., *Chest* 2005;127:2085-2093

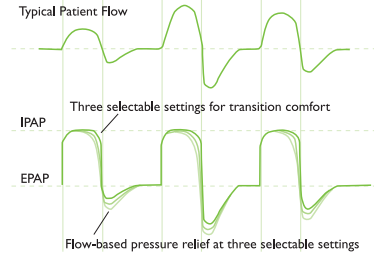
# The Flex Family of technologies

## C-Flex pressure profile



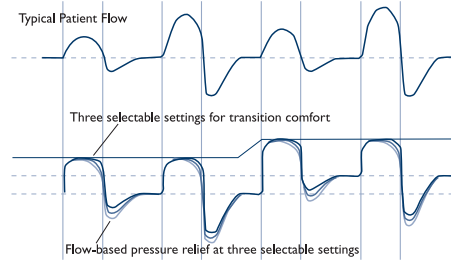
C-Flex technology provides flow-based pressure relief at the beginning of exhalation and adjusts as needed on a breath-by-breath basis. The level of pressure relief varies based on patients' expiratory flow and which of the three C-Flex settings has been selected by the patient.

## Bi-Flex pressure profile



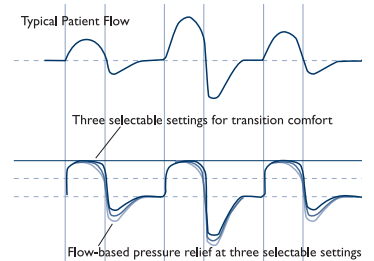
Bi-Flex pressure relief technology offers pressure relief at inhalation and exhalation to make BiPAP therapy more like natural breathing. By tracking each breath, Bi-Flex pressure relief technology delivers pressure relief at three critical points in the breathing cycle: the transition from exhalation to inhalation, the transition from inhalation to exhalation, and during exhalation.

## A-Flex pressure profile



A-Flex is designed to work with our clinically-proven auto-CPAP algorithm to improve comfort even more by matching pressure delivery to the patient's entire breathing cycle. Like C-Flex, A-Flex provides flow-based pressure relief at the beginning of exhalation. Like Bi-Flex, A-Flex softens the pressure transition from inhalation to exhalation to provide additional comfort in an auto-CPAP mode. The pressure profile mirrors the patient's breathing, and with the auto algorithm intelligence, it will respond to the patient's therapeutic need throughout the sleep session.

## C-Flex+ pressure profile



## Another smart step forward: C-Flex+

C-Flex+ is our newest enhancement to comfort relief for our advanced CPAP units (REMstar Pro and Auto) when in fixed CPAP mode. Like C-Flex, C-Flex+ provides flow-based pressure relief at the beginning of exhalation. Like A-Flex, C-Flex+ softens the pressure transition from inhalation to exhalation to provide additional comfort in fixed-CPAP mode.

Learn more about our clinical validation of improved compliance with our Flex technologies by visiting [www.philips.com/respironicsflexfamily](http://www.philips.com/respironicsflexfamily).

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## Easy access

**Encore patient management** makes it quick and simple to obtain vital patient therapy intelligence.



Knowing exactly what patients are experiencing at any given moment of therapy is key to making intelligent patient management decisions.

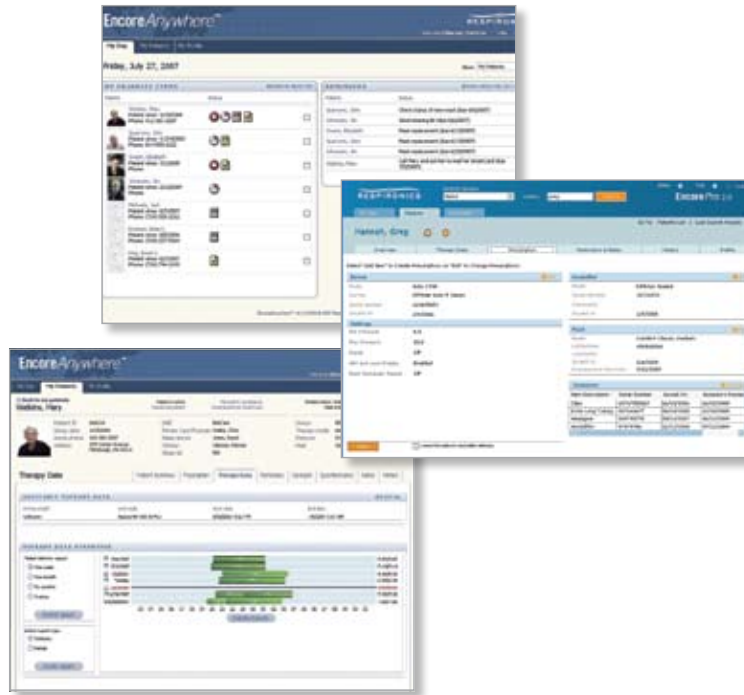
Encore patient management contributes to an intelligent sleep therapy system by providing timely and secure access to comprehensive patient therapy data. Through an intelligent web-based platform, EncoreAnywhere delivers on its name, providing the care team – regardless of where its members are located – with instant access to patient data via new wired or wireless modem options. As a result, the team can collaborate and respond with prescription changes in real time. EncorePro provides the same level of data via an SD card. Both systems are intuitive and secure, making it simpler and more practical to access the patient intelligence that contributes to more intelligent patient and business management.

### **EncoreAnywhere: intelligence at your fingertips**

With the new wireless or wired modem connection, EncoreAnywhere automatically downloads data for instant access. Through a secured-access website available via any computer, physicians, sleep lab professionals, and home care providers can view timely, accurate patient information and then instantly change prescriptions or communicate as necessary. Thanks to a highly intuitive interface, putting such intelligence to work is surprisingly simple, efficient and cost effective. Better patient compliance and increased care team efficiency; that's intelligent therapy management.

### **EncorePro: simple and secure**

The next generation of EncorePro is better than ever for day-to-day patient management. We've simplified the interface while beefing up security, making all of the notifications, reminders, contact records, patient data and reports more secure and even easier to access.



An easy-to-navigate **My Day** page helps users prioritize patient intervention needs quickly.

**Prescription** changes can be made securely and as swiftly as the push of a button. Updates to the device are automatic.

Summary and daily detail reports of **Therapy** data – including patient flow waveforms – are easily viewed and arranged by a specific time frame, including our “Best 30” report which provides the best 30 consecutive days of greater than four-hour sessions. In addition, internal device memory stores six months of compliance data and five days of patient flow waveforms that can be transferred by the Encore data card or modem at any time.

Item	Part number
<b>EncoreAnywhere</b>	
EncoreAnywhere subscription	1999999
EncoreAnywhere administrator guide - homecare provider	1056401
EncoreAnywhere administrator guide - sleep lab and physician	1062233
Take Ten referral marketing package	1056397
Take Ten referral set-up and training package	1056398
<b>EncorePro</b>	
EncorePro 2 software	1054785
EncorePro 2 user guide	1060291
EncorePro 2 installation guide	1054258
<b>Accessories</b>	
SD card reader	1047300
SD card cover (attached to device)	1063858
SD cards (10 pack)	1063859
SD card mailer (10 pack)	1065146
Encore reports manual	1055272
<b>Sleep therapy modem systems</b>	
Wired flow modem	100200W
Wired flow modem monthly service	100201W
Wireless flow modem	100200C
Wireless flow modem monthly service	100201C

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