

RESPIRONICS®



**T**HE NEW HOME FOR C-FLEX™ IS BUILT ON THE IDEA  
THAT A BETTER NIGHT'S SLEEP  
**C**OMES FROM PRODUCTS THAT ARE EASY TO USE.

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# INTRODUCING THE REMSTAR® M SERIES SLEEP SYSTEMS

The REMstar M Series sleep systems with C-Flex are part of a larger family of sleep systems sharing the same smaller, easier-to-use, consumer-friendly platform. This will give you more choices when designing sleep apnea treatment plans that **improve patient lives, while helping you** to meet your clinical and business goals.



## REMSTAR PLUS WITH C-FLEX

The REMstar Plus M Series with C-Flex offers optional integrated humidification, optional Encore® Pro SmartCard® capability for basic compliance reporting, lighted controls, an easy-to-read display and the revolutionary comfort of C-Flex. This device **redefines the entry-level CPAP** market.

## REMSTAR PRO WITH C-FLEX

The REMstar Pro M Series with C-Flex combines the amazing comfort of C-Flex, optional integrated humidification and our Encore Pro SmartCard capability to give you the power of enhanced compliance reporting of apnea/hypopnea index, elevated leak levels and snoring. It's the **most versatile CPAP** we've ever offered.

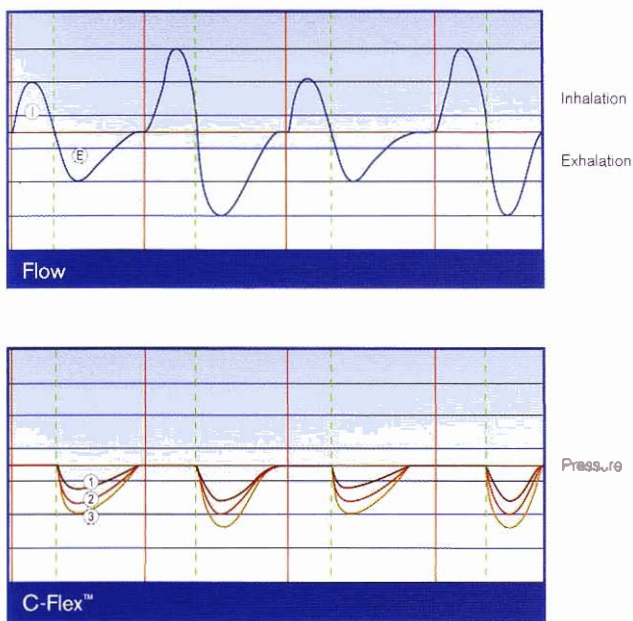
## REMSTAR AUTO WITH C-FLEX

The REMstar Auto M Series with C-Flex is an ideal flow-based Smart CPAP for use in the lab or home. Its Proactive Algorithm looks for and adjusts to the patient's need based on optimal and critical pressure levels. When combined with Encore Pro software, you can track events like snoring, elevated leak levels and apnea/hypopnea. Add that to a host of other great patient features, and it's easy to see why REMstar Auto with C-Flex is the **smartest Smart CPAP** we've ever made.

# THE REMSTAR M SERIES SLEEP SYSTEMS PUT OUR BEST THINKING IN ONE PLACE.

## DISCOVER THE C-FLEX DIFFERENCE.

C-Flex is a comfort setting that enhances traditional CPAP by **reducing pressure at the beginning of exhalation** and returning to therapeutic pressure by the end of exhalation. The amount of pressure relief delivered will vary based on the patient's expiratory flow and the C-Flex setting. With **three C-Flex settings**, patients have the ability to select a greater or lesser degree of pressure relief to make therapy more closely match their needs.



As a patient begins exhalation, C-Flex reduces pressure delivery and returns to the therapeutic pressure right at the point of inhalation – giving patients the therapy they need and the comfort they want.

## HOW IT WORKS.

The real brains behind C-Flex is our patented **Digital Auto-Trak™ Sensitivity**. Digital Auto-Trak is a highly sensitive algorithm that **tracks each breath** and **detects the onset** of inspiration and expiration – even in the presence of mask leak. It then **responds** by triggering C-Flex to provide an **adaptive pressure relief** right when the patient needs it. And delivering the right level of pressure relief when patients need it makes therapy more natural – and more comfortable.

## A PROVEN COMBINATION.

Combining the breath-by-breath sensitivity of Digital Auto-Trak, the pressure relief of C-Flex and optional added humidification, the REMstar M Series sleep systems give you effective tools to help patients build the long-term therapy compliance they need. In fact, in study after study, sleep therapy with C-Flex gives patients their best chance to feel comfortable with their therapy and their ability to take control of their sleep apnea. And **patients who use C-Flex use it longer** than patients on traditional CPAP – up to **1 hour 42 minutes longer\*** every night.



This is Digital Auto-Trak at work. With every breath, its patented algorithm reacts to the point where the patient transitions from inhalation to exhalation and delivers pressure relief right when the patient needs it.

## AUTO-TITRATION ADDS TO THE POWER OF C-FLEX.

To be completely sure that the REMstar M Series family of devices is as impressive on the inside as it is on the outside, we've combined C-Flex, Digital Auto-Trak and our clinically proven\*\* auto-titration algorithm to make the REMstar Auto M Series with C-Flex the **most comfortable smart CPAP** we've ever produced.

The REMstar Auto M Series with C-Flex features our proactive algorithm that **measures instances of flow limitation** and responds by making subtle changes in pressure to prevent apnea and hypopnea events. Additionally, if a large leak condition is detected, this smart algorithm resolves the problem by varying pressure levels until a proper seal is restored. What this means for the patient is effective treatment at the lowest possible pressure with the proven comfort of C-Flex pressure relief.

Mark S. Aloia, PhD, et al., "Treatment Adherence and Outcomes in Flexible vs Standard Continuous Positive Airway Pressure," *Chest*, Volume 127, Number 6, June 2005, pp. 2085-2093.

\*\* K. Hétegonne et al., "Efficacy of Two Auto-CPAP Devices in Controlling Sleep Disordered Breathing," ERS Congress, September 2005

## ENCORE® PRO SMARTCARD® TECHNOLOGY. PATIENT MANAGEMENT MADE EASY.

Patient management is an important part of any sleep therapy regimen to **ensure patient adherence and results**. That's why all sleep systems that offer the comfort of C-Flex can give you the power of Encore Pro SmartCard technology to monitor and respond to your patients' needs.

The SmartCard records the **date, time and duration of each session**. Additionally, both the REMstar Pro M Series and the REMstar Auto M Series allow the SmartCard to record **leak, apnea/hypopnea index and snoring**. This will allow referring physicians



and providers to take a much more active role in understanding and responding to each patient's treatment needs.

Encore Pro's **true database architecture** allows you to handle patient files, develop patient reports and track overall patient compliance. You can even **compare wellness trends** of different patients to explore ways to improve overall care based on different criteria such as insurance provider or therapy mode – all with a simple card that patients can bring to you instead of bringing in the entire sleep system.

This simple mail-in card helps reduce home visits and eliminates the need for patients to transport their device to your facility.

## IMPROVED HUMIDIFICATION IMPROVES COMFORT.

No matter how sophisticated a sleep system is, some patients will not consistently comply with any therapy that causes dry mouth, nasal irritation or congestion. That's why the REMstar M Series sleep systems offer the **comfort of heated or unheated humidification** with these sleek integrated units.

To make humidification a more comfortable choice, we've made the REMstar M Series humidifiers **even easier to use**. They feature a new **easy-turn dial** to get the right setting, and it doesn't need to be reset during the night if therapy is temporarily suspended. Plus, the redesigned "hidden" water chamber is easier to use, and easier to fill, and it delivers **continuous humidification throughout the night**.



This easy-turn dial allows more precise humidification adjustment, even in the dark.

# OUR VISION OF THE FUTURE: SLEEP THERAPY THAT'S SLEEKER AND SMARTER—AND FITS EVERYWHERE.

Sleep therapy is becoming more user-friendly every day as more information and more choices are available at the fingertips of sleep apnea sufferers. And new generations of small CPAPs are popping up all over the place.

In reality, modern sleep therapy devices cannot focus solely on the end user. **The real future of sleep therapy** lies in products that make it **easier for patients** to take control of their sleep apnea – and make it **easier for you** to help them achieve that goal.

That's why **we've redesigned the entire family of REMstar® sleep therapy systems** to give patients more of what they want – without taking away anything you need. The result is a family of devices that's **easy to use**, more **in tune with patients' lifestyles** and still **delivers superior therapy** – thanks to the **C-Flex** waveform.

On the surface, this new design starts with a **smaller and sleeker platform** that better fits the patient's sleep environment. And we've moved the patient tubing to the back of the device for a less obtrusive profile. We've also

made the REMstar M Series sleep systems easier to use with a **unique two-level interface** that gives patients distinct lighted touch controls for power, ramp and C-Flex. And it features a covered LCD display and controls for advanced reporting and setup.

In a move designed to make it easy to incorporate humidification into any patient's therapy, all devices in the REMstar M Series family use the same **redesigned humidification chamber**. It features a new easy-turn dial and a "hidden" water chamber – and it is the only humidifier you'll need to stock for any therapy device offered in the REMstar M Series shell.

All of these platform improvements are made even better with the proven patient comfort of C-Flex. **Patients prefer C-Flex** over traditional therapy, and they **use it longer** – up to **1 hour 42 minutes longer every night.\*** Plus, patients report better quality sleep\*\* with C-Flex. Therapy that patients prefer and use longer is **good for everyone involved**. With C-Flex, the difference is real – and clinically proven.

## THE REMSTAR M SERIES: FEATURES OVERVIEW

	Int. Heated Humidifier (optional)	C-Flex	Encore® Pro SmartCard®	Auto Altitude Adjustment	ANI Snore Leak	Pressure 4 to 20 cm H <sub>2</sub> O	Ramp	Weight 2.2 lbs	Universal Power	DC Capable	Warranty 2 years
<b>REMstar Plus</b>	X	X	(optional)			X	X	X	X	X	X
<b>REMstar Pro</b>	X	X	X	X	X	X	X	X	X	X	X
<b>REMstar Auto</b>	X	X	X	X	X	X	X	X	X	X	X

\* Mark S. Aloia, PhD, et al., "Treatment Adherence and Outcomes in Flexible vs Standard Continuous Positive Airway Pressure," *Chest*, Volume 127, Number 6, June 2005, pp. 2085-2093

\*\* T. Gentina et al., "Comparison Between Automatic and a Novel Fixed Positive Airway Pressure Therapy Studying Quality of Life and Sleep Architecture in Obstructive Sleep Apnea," *World Association of Sleep Medicine*, October 2005, p. 43.

## PRODUCT SPECIFICATIONS

	REMSTAR PLUS WITH C-FLEX	REMSTAR PRO WITH C-FLEX	REMSTAR AUTO WITH C-FLEX
PRESSURE	4 to 20 cm H <sub>2</sub> O	4 to 20 cm H <sub>2</sub> O	4 to 20 cm H <sub>2</sub> O
RAMP TIME	0 to 45 min. (5-min. increments)	0 to 45 min. (5-min. increments)	0 to 45 min. (5-min. increments)
STARTING RAMP PRESSURE	4 to CPAP; patient-adjustable	4 to CPAP; patient-adjustable	4 to CPAP; patient-adjustable
DIMENSIONS	7.5" L x 5.0" W x 3.125" H 19 cm L x 12.7 cm W x 7.9 cm H	7.5" L x 5.0" W x 3.125" H 19 cm L x 12.7 cm W x 7.9 cm H	7.5" L x 5.0" W x 3.125" H 19 cm L x 12.7 cm W x 7.9 cm H
WEIGHT	2.2 lbs / <1 kg	2.2 lbs / <1 kg	2.2 lbs / <1 kg
FILTERS	Pollen and optional ultra-fine	Pollen and optional ultra-fine	Pollen and optional ultra-fine
DEVICE SETUP	LCD/keypad and SmartCard (optional)	LCD/keypad and SmartCard	LCD/keypad and SmartCard
DATA STORAGE CAPACITY (minimum)	Display: 7 and 30 day averages  SmartCard (optional): 9 months at 3 usage sessions per day	Display: 7 and 30 day averages  SmartCard: 6 months at 3 usage sessions per day, 7 days in-depth analysis	Display: 7 and 30 day averages  SmartCard: 6 months at 3 usage sessions per day, 7 days in-depth analysis
DATA STORAGE CONTENT	SmartCard: Date/time, hours of use, usage patterns, FOSQ	SmartCard: Date/time, hours of use, usage patterns, AHI, leak, snore, FOSQ	SmartCard: Date/time, hours of use, usage patterns, AHI, leak, snore, FOSQ
COMPLIANCE MONITORING	Breathing detection	Breathing detection	Breathing detection
ALTITUDE COMPENSATION	Low, medium or high	Automatic	Automatic
ELECTRICAL REQUIREMENTS	100 – 240 VAC, 50/60 Hz	100 – 240 VAC, 50/60 Hz	100 – 240 VAC, 50/60 Hz
HUMIDIFICATION (optional)	Integrated Heated Humidifier and Pass-over Humidifier	Integrated Heated Humidifier and Pass-over Humidifier	Integrated Heated Humidifier and Pass-over Humidifier
DC POWER	Direct connect cord	Direct connect cord	Direct connect cord
WARRANTY	2 years	2 years	2 years
SPECIAL USER FEATURES	Lighted LEDs, Auto on/off, mask off alert, patient reminders	Lighted LEDs, Auto on/off, mask off alert, patient reminders	Lighted LEDs, Auto on/off, mask off alert, patient reminders

## ORDERING INFORMATION

REMSTAR SYSTEMS	PART #	CPAP ACCESSORIES	PART #
REMstar PLUS (device only)	IN201	POLLEN FILTERS	1029330
REMstar PLUS CORE (includes humidifier)	IN201H	ULTRA-FINE FILTERS	1029331
REMstar PLUS w/SMARTCARD (device only)	IN201S	CARRYING CASE	1022219
REMstar PLUS w/SMARTCARD CORE (includes humidifier)	IN201HS	TRAVEL PACK	1028122
REMstar PRO w/SMARTCARD (device only)	IN401S	DC ADAPTER CORD	1001956
REMstar PRO w/SMARTCARD CORE (includes humidifier)	IN401HS	SHIELDED DC CORD SYSTEM (incl. shielded DC cord and battery adapter cable)	1001979
REMstar AUTO w/SMARTCARD (device only)	IN501S	REUSABLE PATIENT TUBING (with swivel)	1022333
REMstar AUTO w/SMARTCARD (includes humidifier)	IN501HS	TUBING SWIVEL	1029532
<b>ENCORE PRO SOFTWARE AND SMARTCARD</b>	<b>PART #</b>	EXTERNAL POWER SUPPLY	1015642
ENCORE PRO SOFTWARE	1009583	M SERIES HEATED HUMIDIFIER	1022256
ENCORE SHIELDED COMMUNICATIONS CABLE (6 ft / 1.83 m)	1000814	M SERIES PASS-OVER HUMIDIFIER	1029091
SMARTCARD READER STATION - USB	1014352	M SERIES HUMIDIFIER CHAMBER (replacement)	1029533
PACK OF SMARTCARDS (10 cards)	1003304		
FOSQ CLINICAL REPRINT (Sleep, 20(10): 835-843)	1000141		
FOSQ QUESTIONNAIRE, ENGLISH (Call Customer Service for other languages.)	1004550		
<b>AC POWER CORDS (3 FT / ~1 M)</b>	<b>PART #</b>		
POWER CORD: Korea, Pakistan, Thailand (European)	1028142		
POWER CORD: India	1028143		
POWER CORD: Australia, New Zealand	1028077		
POWER CORD: USA / Canada	1028078		
POWER CORD: Hong Kong, Indonesia, Malaysia, Singapore (British)	1028080		

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Hoehc CY 04/28/06 MCI 4100554 PN 1035899