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## Med Tips

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May 2015

### PRODUCT INFORMATION

## Pulse Dose Mode Explained for Eclipse and eQuinox Units

### PDF Version

To view Med Tips in PDF, [click here](#).

**Q:** What is the correlation between the Pulse Flow Settings and Continuous Flow Settings?

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**A:** There is no exact correlation between these two settings because of the way the Eclipse & eQuinox deliver pulse flow. These units have a fixed bolus delivery on pulse mode, meaning that the mL delivered with each bolus (inhalation) is constant regardless of the patient's breath rate.

For example, pulse setting of 2.0 is displayed on the Eclipse screen as "32mL 2.0". This means that at setting number 2.0, the user will receive a 32 mL bolus, or pulse of air, each time they breathe in. Because the bolus is the same regardless of breath rate, it is difficult to directly equate the pulse setting number to a liter per minute equivalent. CAIRE has developed eTASK to assist with helping find the optimum pulse setting for each specific patient.

Download Chart's Free eTASK App:



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**Q:** How does the pulse flow delivery work in an Eclipse or eQuinox?

**A:** Pulse Dose mode on the Eclipse is a mode in which the user draws a breath of air, when the vacuum (negative pressure) is sensed by the Eclipse unit, the device releases oxygen at a high flow rate for a short duration of time to the O<sub>2</sub> cannula port. The Pulse Flow Setting determines the Bolus size. The benefit of using Pulse Dose mode is increased battery duration. As for Continuous Flow, this is flow at a constant rate, with no "pulsing".

One could think of pulse flow as opening a sink valve (valve in concentrator opening) for a certain amount of time (Pulse Duration), the water pressure pushing the water out from the faucet (compressor pushing oxygen out from the Eclipse), shutting the valve off (valve in concentrator closing), then the volume the cup (volume of oxygen entering patient's lungs) retains from the unit would be the bolus volume.

## Eclipse Power Cartridge Faceplate

The current Eclipse power cartridge (battery) has a faceplate with a black tab that pushes downward. Older cartridges had a blue tab that pushed upwards. Batteries with blue tabs and black tabs are interchangeable and can be used with all Eclipse models.

If you need to replace a broken faceplate or would like to upgrade from the blue tab to a black tab, you can order a spare faceplate using part number 4556-1-SEQ.

Please note that the light grey and dark grey faceplates are interchangeable.



## HELPFUL HINTS / FAQs

### Installing the Eclipse Power Cartridge Face Plate

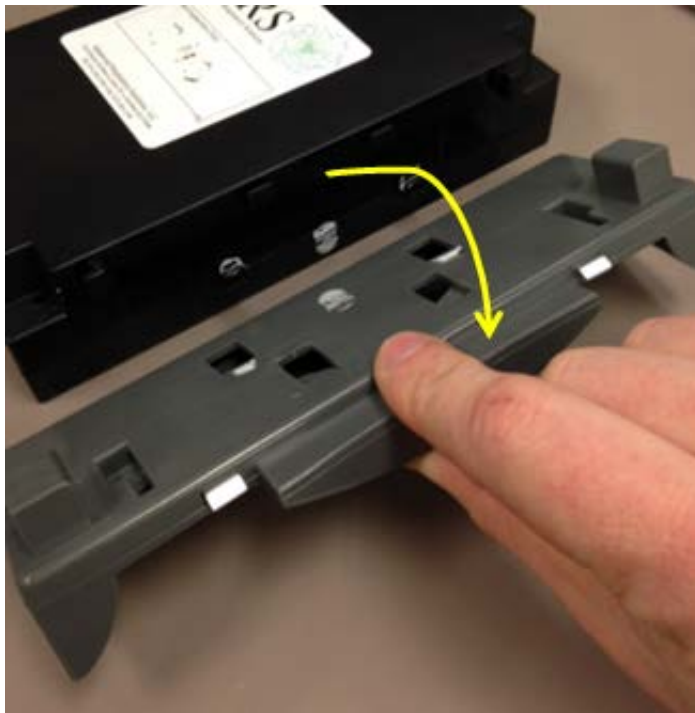
**Step 1.** Remove screws by rotating counter-clockwise using #2 Phillips head screwdriver.



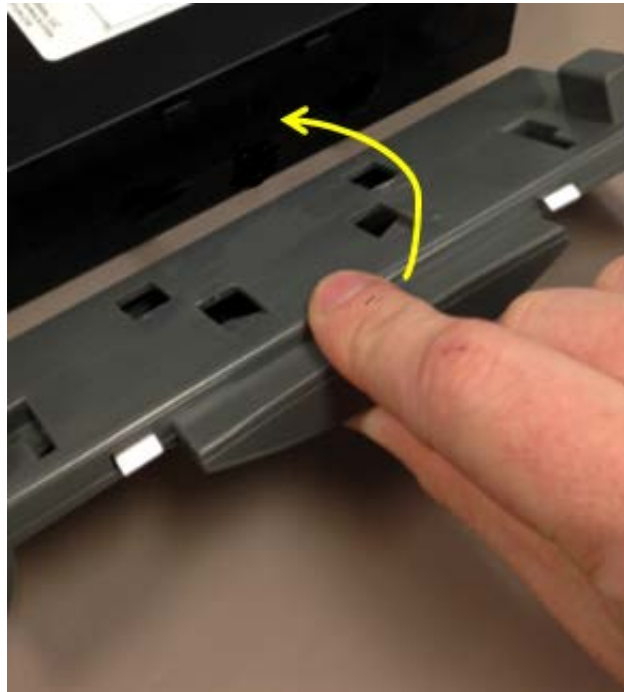
**Step 2.** Turn power cartridge 180° from above position to position shown below. Pull up on face plate.



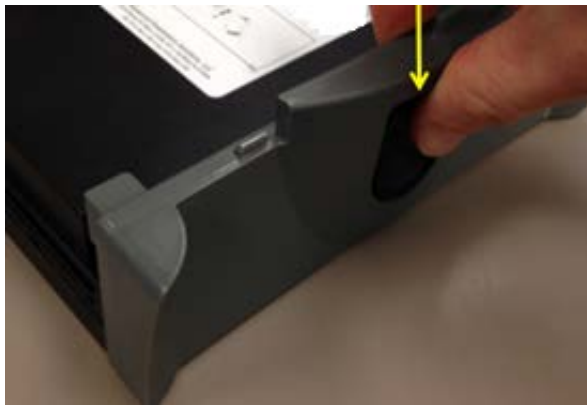
**Step 3.** Pull face plate away from power cartridge.



**Step 4.** Place new face plate onto alignment tabs of power cartridge.



**Step 5.** Push down on face plate until face plate is seated on power cartridge.



**Step 6.** Reinstall screws by rotating clockwise. Tighten until screws seat down, careful not to exceed 6 in-lbs.



## Getting FreeStyle and FreeStyle 5 into Test Mode

**Q:** How do I get my FreeStyle and FreeStyle 5 into Test Mode to test the concentration?

**A1:** To get the FreeStyle into Test Mode, with the unit off, simply press the 2 button to turn it on and wait for the 10s warm-up period to finish (you will hear the internal fan turn on after 10s). Once the fan turns on, press and hold the 1 and 3 buttons at the same time and hold for 5s until all of the LEDs illuminate above the flow control setting buttons. The unit is in Test Mode and will start auto-pulsing.



To Put FreeStyle into Test Mode

**A2:** To get the FreeStyle 5 into Test Mode, with the unit off,

simply press the 2 button to turn it on and wait for the 10s warm-up period to finish (you will hear the internal fan turn on after 10s). Once the fan turns on, press and hold the 1 and 5 buttons at the same time and hold for 5s until all of the LEDs illuminate above the flow control setting buttons. The unit is in Test Mode and will start auto-pulsing.






To Put FreeStyle 5 into Test Mode

## ACCESSORIES

### eQuinox Battery Pack and Desktop Charger

The Standard 12-Cell Battery Pack for the SeQual eQuinox can be ordered using PN: 4823-SEQ and the 24-Cell Battery Pack (for extended durations) can be ordered using PN 4972-SEQ. These items will charge when installed inside the eQuinox unit and connected to external power but the eQuinox Desktop Charger can be ordered using PN: 4980-SEQ.

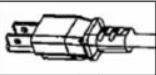



Item Image	Item Number	Description
	4823-SEQ	<b>eQuinox 12-Cell Battery Pack:</b> Standard battery pack for use with the SeQual eQuinox.
	4972-SEQ	<b>eQuinox 24-Cell Battery Pack:</b> Larger battery pack for extended use of the SeQual eQuinox.
	4980-SEQ	<b>eQuinox Desktop Charger:</b> Tabletop charger to recharge both the 12 and 24-cell battery packs from AC power. Includes charger and AC power supply.



Typical New Battery Pack Operating Times*		
	Battery Type	
	12-Cell	24-Cell
<b>Continuous Mode</b>		
0.5 LPM	2.48 hrs	5.28 hrs
1 LPM	2.16 hrs	4.84 hrs
2 LPM	1.20 hrs	2.75 hrs
3 LPM	0.80 hrs	1.83 hrs
<b>Pulse Mode (12 BPM)</b>		
Setting 1.0 Bolus 16 mL	2.62 hrs	5.94 hrs
Setting 2.0 Bolus 32 mL	2.50 hrs	5.70 hrs
Setting 3.0 Bolus 48 mL	2.38 hrs	5.39 hrs
Setting 4.0 Bolus 64mL	2.31 hrs	4.94 hrs
Setting 5.0 Bolus 80 mL	2.22 hrs	4.75 hrs
Setting 6.0 Bolus 96 mL	1.70 hrs	3.85 hrs
Setting 7.0 Bolus 128 mL	1.56 hrs	3.33 hrs
Setting 8.0 Bolus 160 mL	1.28 hrs	2.72 hrs
Setting 9.0 Bolus 192 mL	1.0 hrs	2.15 hrs

## AC and DC Power Supply PN Table for AirSep POCs

The below table can be used to order AC and DC power Supplies for the AirSep POCs.

POC Model (Nominal Voltages / Frequencies)	AirBelt PN:	AC Power Supply:	DC Power Supply:	AC Power Cord:	
<b>US-Style Power Cord (120V / 60Hz)</b>					
Focus - US	BT017-1*	PW023-1**		AC Power Cord that Goes from Brick to Wall	
FreeStyle - US	BT017-1	PW022-1		Receptacle can be Ordered using PN: CD023-2	
FreeStyle 5 - US	BT017-1	PW021-1	PW027-1		
<b>European-Style Power Cord (220V / 50Hz)</b>					
Focus - European	BT017-2*	PW023-2**		AC Power Cord that Goes from Brick to Wall	
FreeStyle - European	BT017-2	PW022-2		Receptacle can be Ordered using PN: CD017-2	
FreeStyle 5 - European	BT017-2	PW021-2	PW027-1		
<b>Australian-Style Power Cord (240V / 50Hz)</b>					
Focus - Australian	BT017-3*	PW023-3**		AC Power Cord that Goes from Brick to Wall	
FreeStyle - Australian	BT017-3	PW022-3		Receptacle can be Ordered using PN: CD025-1	
FreeStyle 5 - Australian	BT017-3	PW021-3	PW027-1		
<b>UK-Style Power Cord (230V / 50Hz)</b>					
Focus - UK	BT017-4*	PW023-4**		AC Power Cord that Goes from Brick to Wall	
FreeStyle - UK	BT017-4	PW022-4		Receptacle can be Ordered using PN: CD017-4	
FreeStyle 5 - UK	BT017-4	PW021-4	PW027-1		

\*Will also need Focus Cable Adapter, PN: CD035-1, to connect to AirBelt

\*\*Will need to order Coil Cord to Battery, PN: CD032-2, if option to charge battery is desired.

SERVICE SCHOOLS & TRADE SHOWS

## 2015 Service School dates have been announced!

### USA

#### 2015 Service School Dates:

For additional details and registration information about these trainings, please visit the "[Service Schools](#)" page on our website.

Concentrator Training: June 15-17 in Ball Ground, GA  
LOX Training: June 18-19 in Ball Ground, GA

Concentrator Training: November 2-4 in Ball Ground, GA  
LOX Training: November 5-6 in Ball Ground, GA

*\*Trainings include a tour of our CAIRE and SeQual manufacturing facility.*

### Europe

#### LOX Trainings:

August 19-20 in Wuppertal/Germany - German language  
April 28-29 in Wuppertal/Germany - English language  
October 5-6 in Toulouse/France - French language  
October 14-15 in Wokingham/United Kingdom - English language  
October 21-22 in Padova Italy - Italian language

#### Concentrator Trainings:

May 19-21 in Wuppertal/Germany - German language  
June 9-11 in Padova Italy - Italian language  
June 23-25 in Wuppertal/Germany - English language  
September 22-24 in Wuppertal/Germany - German language  
October 7-9 in Toulouse/France - French language  
November 24-26 in Wokingham/United Kingdom - English language

For additional details and registration information about these trainings, please visit the "[Service Schools](#)" tab of our website.

### Trade Shows

We will be attending the following trade shows this month. We would love for you to stop by our booth!



**FOCUS**

May 6-7  
Orlando, FL  
Booth # 605

**Pulmonary Care Symposium**

May 8  
Jacksonville, FL

**Lung Force Walk**

May 9  
Orlando, FL

**Lung Force Walk**

May 9  
Denver, CO

**NYMEP**

May 11-13  
Ledyard, CT

**GAMES**

May 11-12  
Savannah, GA

**CSPR**

May 13-15  
Irvine, CA

**CMEF**

May 15-18  
Shanghai, China  
Stand H6.2 - M01

**CSRT**

May 21-23  
Calgary, Alberta Canada  
Booth # 52

**IA Lung Force Expo**

May 27  
Des Moines, IA

**WI Lung Force Expo**

May 28  
Milwaukee, WI

**FAHCS**  
May 28  
Orlando, FL

**SCMESA**  
June 3-6  
Myrtle Beach, SC

## CONTACT US

### For ordering information, contact Customer Service:

United Kingdom	+44 (0) 1189 367060
France	+33 (0) 561 429 411
Germany	+49 (0) 202 739 55420
Italy	+39 049 879 9601
	customerservice.europe@chartindustries.com
Australia/New Zealand	+61 2 9749 4333
	customerservice.australia@chartindustries.com
Asia/Pac Rim	770.721.7759
	csasia@chartindustries.com
The Americas	770.721.7759
US Toll-Free	800.482.2473
	customerservice.usa@chartindustries.com

### For technical information, contact Technical Service:

United Kingdom	+44 (0) 1189 367060
France	+33 (0) 561 429 411
Germany	+49 (0) 202 739 55420
Italy	+39 049 879 9160
	techservice.europe@chartindustries.com
Asia/Pac Rim	+61 2 9749 4333
	techservice.asia@chartindustries.com
The Americas	770.721.7759
	techservice.usa@chartindustries.com
US Toll-Free	800.482.2473
	techservice.usa@chartindustries.com

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