Covent Test Plan

SR01	Mandatory Ventilation								
SR08	PEEP Pressure 5, 10, 15 cmH2O in increments of 5 cmH2O (+/ 5 cmH2O) (see volume control testing)								
SR09	Mandatory Ventilation - I:E 1:2, 1:3, and 1:4 options available **1:5 & 1:1 I:E per respiratory rate requirements (see I:E column of Volume Control testing)								
SR10	Respiratory Rate 10-30 breaths per minute in increments of 2 bpm 10, 12, 15, 20, 30 to follow I:E ratios (see volume control testing or demonstrate individually ?)								
SR11	Tidal Volume Option #1: Input height and gender for 6cc/kg TV (+/-10% or 10mL) Option #2: 350cc (for average woman) and 450cc (for average man) (+/-10% or 10mL) Option #3: 400cc only (+/-10% or 10mL) Option #4: 300, 400, 500, 600 (+/-10% or 100mL) **200 ISO only (see TidalVolume column in Volume Control Testing)								
SR02	Spontaneous Ventilation see spontaneous.mov								
SR06	Apnea back up kicks in at 30 or 60 seconds (+/ 5sec) see spontaneous.mov								
SR03	Volume Control								
Section	ection 201.12.1.101 from ISO 80601-2-12								
	Compliance ml/hPa ±10%	Resistance hPa/l/s ±10%	Tidal Volume ml	Breaths / min (a)	Inspire time (s)	O2	BAP (PEEP)	I:E	
1	50	5	500	20	1	30	5	1:2	
	Pressure Difference : -1.14% Tidal Volume Difference : +32.60%								

2	50	20	500	12	1	90	10	1:4		
				14	'	30	10	1.7		
	Pressure Difference : +4.31% Tidal Volume Difference : +57.49%									
3	20	5	500	20	1	90	5	1:2		
	Pressure Difference : -0.27% Tidal Volume Difference : +56.02%									
4	20	20	500	20	1	30	10			
5	20	20	300	20	1	30	5			
6	20	50	300	12	1	90	10	1:3		
7	10	50	300	20	1	30	10			
8	10	10	200	20	1	90	5			
C200	50	5	200	15	1	20	5	1:3		
	Pressure Difference : +2.15% Tidal Volume Difference : +67.67%									
C300	50	5	300	15	1	20	5	1:3		
C400	50	5	400	15	1	20	5	1:3		
C500	50	5	500	15	1	20	5	1:3		
C600	50	5	600	15	1	20	5	1:3		
P15	50	5	500	10	1	20	15	1:5		
	Pressure Difference : -14.44% Tidal Volume Difference : -11.64%									
R30	50	5	200	30	1	20	5	1:1		
	Pressure Difference : +2.55% Tidal Volume Difference : +46.53%									
a)	a) if the end expiratory flow does not reach zero, reduce set rate until it does									
SR04	Pressure Control 5-60 +/- 5 cmH2O Control Module									
	Compliance ml/hPa ±10%	Resistance hPa/l/s ±10%	Tidal Volume ml (a)	Breaths / min (b)	Inspire time (s) (c)	O2	BAP (PEEP)	Δ insp pressure (d)		
1	50	5	500	20	1	30	5	10		

	Pressure Difference : -2.37% Tidal Volume Difference : +17.60%								
2	50	20	500	12	1	90	10	15	
	Pressure Difference : -0.09% Tidal Volume Difference : +31.01%								
3	20	5	500	20	1	90	5	25	
b) c)	intended tidal volume for the selection of test conditions on test lung if the end expiratory flow does not reach zero, reduce set rate until it does the rise time of the ventilator should be set to a value that insecure pressure can be reached for this test the set pressure is relative to BAP (PEEP)								
SR05	Pressure Support 10-15 +/- 5 cmH2O flow or pressure triggered								
SR07	Flow Rate > 60 liters per minute								
C600	refer to C600 test data								
Alarms	Alarms								
SR19	air_alarm								
SR20	pressure_alarm								
SR21	spontaneous								
SR22	peep_alarm								
SR23	air_alarm								
SR24	air_alarm								
SR25	decibel.MP4								