Maintenance and cleaning instructions

Cleaning

Exterior

- 1. Disconnect hoses and filters
- 2. Wipe the outside of the cabinet with a damp clean cloth. Light solvents and detergents may be used

Interior

- 1. Clean the exterior, do not connect hoses until interior cleaning is complete
- 2. Connect a 22mm hose to the expiration connector on the front of the unit
- 3. Connect the expiration connector at the rear of the unit to a watertight receptacle
- 4. If a flow sensor is fitted to the expiration channel (this is an optional extra), then this sensor must be removed prior to the following step. Also prior to the following step, screw the supplied blind fitting in place of the flow sensor.
- 5. Flush ten (10) litres of water-disinfectant solution through, from the front to the rear, of the expiration channel
- 6. NEVER FLUSH LIQUIDS THROUGH THE INSPIRATION SIDE OF THE MACHINE.

Maintenance

- 1. The filters and humidifier are external to the unit and should be maintained/replaced as required by the manufacturer
- 2. The 12v solenoids should be replaced every 4000 hours.

Validation Test

This test should be conducted on a minimum of a monthly basis. This test ensures that the machine is running consistently and accurately.

- 1. Setup
 - a) Connect the machine to pressurised oxygen and air supplies. Leave outlet of expiratory unconnected.

- b) Connect auxiliary pressure gauges to the inspiratory outlet (patient end) and expiratory inlet (patient end).
- c) Connect inspiratory and expiratory lines to y connection and then to a dummy set of lungs that can provide compliance.

2. Pressure Set Point Testing

a) Run the system at the IP and PEEP set points outlined in the table below. Fill in the table recording the results of the tests. Record IP and PEEP both from the output graphs and from the auxiliary gauges.

			Percentage Percen		tage Percentage		Percentage				
				lage	Percent	lage		lage		O	
			differ-		differ-		differ-		differ-	Tidal	
		ΙP	ence	PEEP	ence		ence		ence	Vol-	
	PEEP	from	from	fro-	from	IP	from	PEEP	from	ume	
IP Set-	Set-	aux	set	maux	set	from	aux	from	aux	from	
Point	Point	gauge	point	gauge	point	graph	gauge	graph	gauge	graph	
(cmH20) (cmH20) (cmH20) (%)))(%)	(cmH20) (%)		(cmH20) (%)		(cmH20) (%)		(ml)	Notes	
40	20										
35	15										
30	10										
25	5										
20	0										

1. FiO2 Set Point Testing

a) Run the system at the FiO2 set points outlined in the table below. Fill in the table recording the results of the tests.

IP Set Point	PEEP Set	FiO2 Set Point	FiO2	TV recorded	Notes
(cmH20)	Point	(% O2)	Recorded	from graph	
	(cmH2O)		from graph (%	(ml)	
			O2)		
40	20	20			
40	20	30			
40	20	40			

20	50
20	60
20	70
20	80
20	90
20	100
	20 20 20 20

1. B.P.M Set Point Testing

a) Run the system at the B.P.M set points outlined in the table below. Fill in the table recording the results of the tests.

IP Set Point (cmH20)	PEEP Set Point (cmH2O)	B.P.M Set Point	B.P.M Recorde d from graph	Percent age differe nce from set point to recorde d B.P.M (%)	TV recorde d from graph (ml)	Notes
40	20	5				
40	20	10				
40	20	15				
40	20	20				
40	0	5				
40	0	10				
40	0	15				
40	0	20				