

Conditions	Pathological		Normal		
	Frequency 1	Frequency 2	Frequency 1	Frequency 2	
Premature	Resistance (cmH <sub>2</sub> O.L.s )	120	120	120	120
	Compliance (mL.cmH <sub>2</sub> O )	0.5	0.5	1.6	1.6
	Respiratory Rate (/min)	70	70	50	50
	Inspiratory effort (cmH <sub>2</sub> O)	17	17	12	12
	Endotracheal tube (mm)	3.0	3.0	3.0	3.0
	Mean Airway Pressure (cmH <sub>2</sub> O)	12	12	12	12
	Amplitudes (for vt 1.5 mL.kg)	*	*	*	*
	Frequency (Hz)	15	10	15	10
Term	Resistance (cmH <sub>2</sub> O.L.s )	29	29	29	29
	Compliance (mL.cmH <sub>2</sub> O )	2	2	4	4
	Respiratory Rate (/min)	40	40	30	30
	Inspiratory effort (cmH <sub>2</sub> O)	10	10	8	8
	Endotracheal tube (mm)	3.5	3.5	3.5	3.5
	Mean Airway Pressure (cmH <sub>2</sub> O)	12	12	12	12
	Amplitudes (for vt 1.5 mL.kg)	*	*	*	*
	Frequency (Hz)	12	8	12	8
Infant	Resistance (cmH <sub>2</sub> O.L.s )	13	13	13	13
	Compliance (mL.cmH <sub>2</sub> O )	9	9	20	20
	Respiratory Rate (/min)	50	50	25	25
	Inspiratory effort (cmH <sub>2</sub> O)	12	12	8	8
	Endotracheal tube (mm)	4.0	4.0	4.0	4.0
	Mean Airway Pressure (cmH <sub>2</sub> O)	12	12	12	12
	Amplitudes (for vt 1.5 mL.kg)	*	*	*	*
	Frequency (Hz)	9	5	9	5
Child	Resistance (cmH <sub>2</sub> O.L.s )	6		6	
	Compliance (mL.cmH <sub>2</sub> O )	24		71	
	Respiratory Rate (/min)	30		18	
	Inspiratory effort (cmH <sub>2</sub> O)	8		5	
	Endotracheal tube (mm)	6.0		6.0	
	Mean Airway Pressure (cmH <sub>2</sub> O)	12		12	
	Amplitudes (for vt 1.5 mL.kg)	*		*	
	Frequency (Hz)	5		5	

*Factors affecting iWOB in HFOV for spontaneously breathing neonatal and pediatric patients.*

**Table 1.** Description of all conditions tested for every ventilator.