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ion in the ICU		ORIGIN	AL ARTICLE		
		moist expire	efficiency particulate air f ure exchanger filters incr atory pressure in helmet o y pressure: A bench-top s	ease positive end- continuous positive	
		E. Rezo	agli <sup>1,0</sup> , G. Coppola <sup>2</sup> , L. Dezza <sup>3</sup> , A. <sup>1,b</sup> , A. Lucchini <sup>a,b,*</sup>	Galesi <sup>e</sup> , G.P. Gallo <sup>f</sup> , R. Fumagalli <sup>a, #</sup> ,	G. Bellani <sup>17,0</sup> ,
		0.100	,		
U					
			0) over increasing gas flows an	d without using any PEEP valve a	and by using 2
		vay pressure ( $\Delta$ Pressure, cmH <sub>2</sub>	0) over increasing gas flows an	d without using any PEEP valve - Gas flow 100 L/min	and by using 2 p-value
	different commercially a	vay pressure (ΔPressure, cmH₂ vailable PEEP valves (PEEP val	D) over increasing gas flows an ve 1 and 2).	• /	, ,
	different commercially a Tested condition No PEEP valve	vay pressure (ΔPressure, cmH <sub>2</sub> vailable PEEP valves (PEEP val Gas flow 60 L/min	0) over increasing gas flows an ve 1 and 2). Gas flow 80 L/min	Gas flow 100 L/min	p-value
	different commercially a Tested condition No PEEP valve PEEP valve 1 • Set at 5 cmH <sub>2</sub> O • Set at 10 cmH <sub>2</sub> O	vay pressure (ΔPressure, cmH <sub>2</sub> vailable PEEP valves (PEEP val Gas flow 60 L/min 2.2 (1.9-2.6)	D) over increasing gas flows an ve 1 and 2). Gas flow 80 L/min 3.9 (3.6-4.5)*	Gas flow 100 L/min 5.3 (5.0-6.1)*#	p-value <0.001
	different commercially a Tested condition No PEEP valve PEEP valve 1 • Set at 5 cmH <sub>2</sub> O	vay pressure (ΔPressure, cmH <sub>2</sub> vailable PEEP valves (PEEP val Gas flow 60 L/min 2.2 (1.9-2.6) 2.8 (2.2-3.8)	D) over increasing gas flows an ve 1 and 2). Gas flow 80 L/min 3.9 (3.6-4.5)* 4.9 (4.4-5.4)*	Gas flow 100 L/min 5.3 (5.0-6.1)* <sup>#</sup> 6.7 (5.9-7.1)* <sup>#</sup>	p-value <0.001 <0.001

























