



# Patients receive the ventilation they need, when they need it

## Proportional pressure ventilation (PPV) on the Respironics V60

Our ventilatory requirements change continuously as do those of our patients. In acute respiratory failure, patients generally do not generate sufficient effort to overcome imposed work of breathing due to muscle fatigue. As a result, these patients are unable to effectively adapt their ventilation according to their needs. When intact, nothing beats a patient's own breathing control mechanisms to adjust desired volume breath to breath. PPV provides inspiratory flow and pressure in proportion to the patient's spontaneous effort,<sup>1</sup> thus improving patient control over their ventilation.<sup>2</sup>

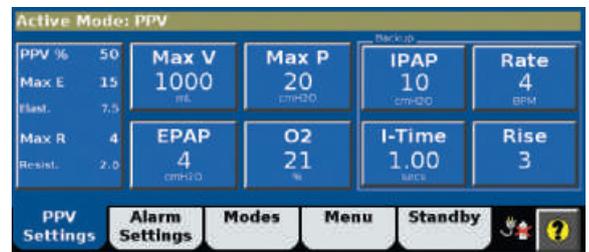
### Key advantages

- Provides ventilation in proportion to the patient's effort resulting in improved neuro-ventilatory coupling<sup>2,3</sup>
- Reduces the pressure required for the same volume in other spontaneous modes<sup>1,2</sup>
- Enables normalized breathing patterns<sup>2</sup> and improved comfort versus conventional pressure support<sup>2,4</sup>

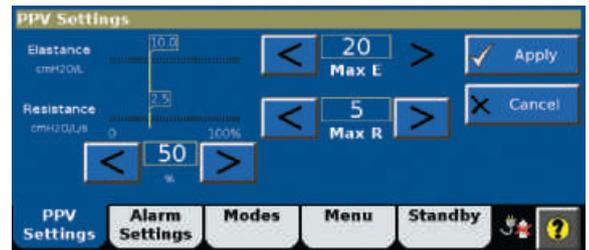
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# PPV mode parameters

Parameters	Range
<b>Primary settings</b>	
Max E	0 – 100 cmH <sub>2</sub> O/L
Max R	1 – 50 cmH <sub>2</sub> O/L/sec
% PPV	0 – 100 %
Max volume	200 – 3500 ml
Max pressure	5 – 40 cmH <sub>2</sub> O
EPAP	4 – 25 cmH <sub>2</sub> O
O <sub>2</sub> concentration	21 – 100 %
<b>PPV backup settings</b>	
IPAP	4 – 40 cmH <sub>2</sub> O
I-Time	0.30 – 3.00 sec
Rate	4 – 60 BPM
Rise time	1–5



Global view of selected PPV parameters



Intuitive parameter menu

## Ordering Information

Description	Legacy part number	Philips part number
V60 factory installed PPV option	1053086	989805628361
V60 RespiLink installed PPV option	1053087	989805628351
V60 field installed PPV option	1053088	453561516981

## References

1. Gay P, Hess D and Hill N. Noninvasive proportional assist ventilation for acute respiratory insufficiency comparison with pressure support ventilation. *Am J Respir Crit Care Med.* 2001; 164:1606-1611
2. Younes M. Proportional assist ventilation, a new approach to ventilatory support. *American Review of Respiratory Disease.* 1992; 145(1):114-120.
3. Ranieri VM, Guiliani R, Mascia L, et al. Patient-ventilator interaction during acute hypercapnia: pressure support vs. proportional assist ventilation. *J Appl Physiol.* 1996; 81:426-436
4. Wysocki M. Noninvasive proportional assist ventilation compared with noninvasive pressure support ventilation in hypercapnic acute respiratory failure. *Critical Care Med.* 2002; 309(2):323-329

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Printed in The Netherlands  
4522 962 76601 \*AUG 2011