

Table S2 Pressure support speed adjustment in the different home ventilators

Ventilator name	Adjustable by operator	VAPS rate (speed of pressure support adjustment to meet the Vt)
Air Liquide		
Monnal T40, Monnal T50	No	± 0,1 to 3 mbar every 3 breaths*
Breas		
Vivo 40 with Target Volume , Vivo 50 Life-Support Ventilator, Vivo 60	No	± 0,5 cmH ₂ O per breath*
Löwenstein medical		
Prisma VENT	Yes (displayed as I,II,III)	1. ± 0,5 mbar per 8 breaths (I) 2. ± 1 mbar per 5 breaths (II) 3. ± 1,5 mbar per breaths (III)
ResMed		
Stellar 150 – iVAPS, Lumis 150 VPAP ST-A – iVAPS, VPAP™ ST mit iVAPS - iVAPS	No	IPAP increase up to 0.7cmH ₂ O/sec IPAP decrease up to -1cmH ₂ O/sec
Astral 150 – Safety Volume feature	No	± 0,1 to 2 cmH ₂ O per breath*
Respironics		
BiPAP A30 BiPAP A30 Silver Series	Yes (displayed in a range of 0,5 cmH ₂ O increments)	± 0,5 to 5 cmH ₂ O/min
BiPAP A40 BiPAP A40 Silver Series	Yes (displayed in a range of 0,5 cmH ₂ O increments)	± 0,5 to 5 cmH ₂ O/min
BiPAP AVAPS	No	± 2,5 cmH ₂ O/min*
BiPAP Synchrony II	No	± 1 to ± 3 cmH ₂ O/min
Trilogy100/ Trilogy200	Yes (displayed in a range of 0,5 cmH ₂ O increments)	± 1 to 5 cmH ₂ O/min
Weinmann		
VENTIllogic plus, VENTIllogic LS, VENTImotion 2	Yes (displayed as slow,	1. ± 0,05 mbar per 8 breaths (slow)

	medium, fast)	2. ± 1 mbar per 5 breaths (medium) 3. $\pm 1,5$ mbar per breaths (fast)
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*The increment/decrement in inspiratory pressure will take place in the specified time/number of breaths according to the software's algorithm. The magnitude of pressure change will depend on how far away is the monitored volume tidal from the target volume tidal.

The different dual-mode ventilators' software vary significantly the pressure support speed adjustment to reach the target V_t . While some ventilators allow the clinician to set it (e.g. 0.5-5 $\text{cmH}_2\text{O}/\text{min}$), other ventilators possess a fix response rate and others react after a mathematical formula according to how far away the V_t is in percentage from the preset V_t .