

# PROCTOR VENTIENT

Trickle ventilation system

Length (mm)	Ventilation Open Area cm <sup>2</sup>	Fully Open (with filter)				
		Effective Open Area (αA) cm <sup>2</sup>	Ventilation Volume (Q) m <sup>3</sup> /hr		Ventilation Volume (Q) l/s	
			ΔP = 12Pa		ΔP = 12Pa	
500	65.0	20.7	34.4	30.5 (ΔP/9.8) <sup>0.59</sup>	9.6	8.5 (ΔP/9.8) <sup>0.59</sup>
600	86.0	26.8	44.1	39.4 (ΔP/9.8) <sup>0.56</sup>	12.3	10.9 (ΔP/9.8) <sup>0.56</sup>
700	108.0	32.8	54.1	48.3 (ΔP/9.8) <sup>0.56</sup>	15.0	13.4 (ΔP/9.8) <sup>0.56</sup>
800	130.0	38.8	64.0	57.1 (ΔP/9.8) <sup>0.56</sup>	17.8	15.9 (ΔP/9.8) <sup>0.56</sup>
900	151.0	44.8	73.9	66.0 (ΔP/9.8) <sup>0.56</sup>	20.5	18.3 (ΔP/9.8) <sup>0.56</sup>
1,000	173.0	50.8	83.9	74.9 (ΔP/9.8) <sup>0.56</sup>	23.3	20.8 (ΔP/9.8) <sup>0.56</sup>
1,100	194.0	56.9	93.2	83.8 (ΔP/9.8) <sup>0.53</sup>	25.9	23.3 (ΔP/9.8) <sup>0.53</sup>
1,200	216.0	62.9	103.1	92.6 (ΔP/9.8) <sup>0.53</sup>	28.6	25.7 (ΔP/9.8) <sup>0.53</sup>
1,300	238.0	68.9	113.0	101.5 (ΔP/9.8) <sup>0.53</sup>	31.4	28.2 (ΔP/9.8) <sup>0.53</sup>
1,400	259.0	74.9	122.9	110.4 (ΔP/9.8) <sup>0.53</sup>	34.1	30.7 (ΔP/9.8) <sup>0.53</sup>
1,500	259.0	81.0	132.7	119.2 (ΔP/9.8) <sup>0.53</sup>	36.9	33.1 (ΔP/9.8) <sup>0.53</sup>

Length (mm)	Ventilation Open Area cm <sup>2</sup>	Fully Open (without filter)				
		Effective Open Area (αA) cm <sup>2</sup>	Ventilation Volume (Q) m <sup>3</sup> /hr		Ventilation Volume (Q) l/s	
			ΔP = 12Pa		ΔP = 12Pa	
500	65.0	23.2	38.1	34.1 (ΔP/9.8) <sup>0.56</sup>	10.6	9.5 (ΔP/9.8) <sup>0.56</sup>
600	86.0	29.0	47.8	42.7 (ΔP/9.8) <sup>0.56</sup>	13.3	11.9 (ΔP/9.8) <sup>0.56</sup>
700	108.0	34.9	57.5	51.3 (ΔP/9.8) <sup>0.56</sup>	16.0	14.3 (ΔP/9.8) <sup>0.56</sup>
800	130.0	40.8	66.8	60.0 (ΔP/9.8) <sup>0.53</sup>	18.5	16.7 (ΔP/9.8) <sup>0.53</sup>
900	151.0	46.7	76.4	68.6 (ΔP/9.8) <sup>0.53</sup>	21.2	19.1 (ΔP/9.8) <sup>0.53</sup>
1,000	173.0	52.5	86.0	77.3 (ΔP/9.8) <sup>0.53</sup>	23.9	21.5 (ΔP/9.8) <sup>0.53</sup>
1,100	194.0	58.4	95.6	85.9 (ΔP/9.8) <sup>0.53</sup>	26.6	23.9 (ΔP/9.8) <sup>0.53</sup>
1,200	216.0	64.3	105.2	94.5 (ΔP/9.8) <sup>0.53</sup>	29.2	26.3 (ΔP/9.8) <sup>0.53</sup>
1,300	238.0	70.2	114.2	103.2 (ΔP/9.8) <sup>0.50</sup>	31.7	28.7 (ΔP/9.8) <sup>0.50</sup>
1,400	259.0	76.0	123.7	111.8 (ΔP/9.8) <sup>0.50</sup>	34.4	31.1 (ΔP/9.8) <sup>0.50</sup>
1,500	259.0	81.9	133.3	120.5 (ΔP/9.8) <sup>0.50</sup>	37.0	33.5 (ΔP/9.8) <sup>0.50</sup>

## NOTES

Please contact PGA for air flow data when the Ventient SCW-NS is in the 33% open position or if another filter type is required. The position with the curtain wall or window will impact on air flow performance depending on the air flow pathway, the inclusion of acoustic treatment, intumescent fire barrier materials, exterior ember and insect screens and constant air flow dampening. This data may be available. Effective open area (αA) is calculated in house in Japan using apparatus conforming to JISC 9603.

The use of local air cleaning devices in a room can reduce minimum outdoor air requirements (as per AS1668.2 Appendix D) thus reducing required outdoor air quantities via the trickle vent.

Seek advice from gas appliance suppliers regarding use of open flued appliances in any enclosures subject to negative pressures.

Advice relating specifically to health care circumstances should be sought for applications intended for health care facilities.

Please consult the user guide for instructions on filter access and maintenance.

Where there are specific noise and vibration isolation requirements, seek advice from an acoustic and vibration consultant. Further data is available.

The designer must consider the position of the openings with respect to contamination, wind effects and uniformity of distribution as outlined in AS1668.2