
AIR CONDITIONING TESTING AND BALANCING REPORT

Sample Project

123 Sample Street
Sydney, NSW, 2000

Level 6



Client: Sample Client

Project Number: PR-0001

Report Date: 17/06/2026

Drawing Number: M-101

Tested By: Ivan Camacho

AIR CONDITIONING TESTING AND BALANCING REPORT

PROJECT:	Sample Project - Level 6 - 123 Sample Street - Sydney, NSW, 2000			Project No:	PR-0001
Tested By:	Ivan Camacho	Drawing No:	M-101	Date:	2026-06-17
Instrument:	Testo 802 Vane Anemometer				

Summary

PACKAGE UNIT

Unit Number	Area Served	Speed Setting	O/A Design Flow L/S	O/A Actual Flow L/S	Design Flow L/S	Actual Flow L/S	% Design
PAC-6.01.1	Open Office	Low	50	51	300	323	108%
PAC-6.01.2	Boardroom	Low	75	76	320	321	100%
PAC-6.01.3	Meeting 02	Low	50	52	190	205	108%
PAC-6.01.4	Meeting 01	Low	50	51	190	207	109%
PAC-6.02.1	Open Office	Low	150	151	495	500	101%
PAC-6.02.2	Meeting	Low	75	76	230	234	102%
PAC-6.02.3	Meeting	Low	50	51	190	202	106%

VARIABLE AIR VOLUME

Vav Number	Area Served	Design Flow L/S	Actual Flow L/S	% Design
VAV-S1	Perimetre South	595	603	101%
VAV-S2	Perimetre South	510	511	100%
VAV-S3	Perimetre South	360	372	103%
VAV-E1	Perimetre East	535	544	102%
VAV-E2	Perimetre East	400	423	106%
VAV-N1	Perimetre North	540	548	101%
VAV-N2	Perimetre North	540	546	101%
VAV-N3	Perimetre North	450	469	104%
VAV-C1	Centre South	380	389	102%
VAV-C2	Centre South	420	437	104%
VAV-C3	Centre South	585	602	103%
VAV-C4	Centre South	550	553	101%
VAV-C5	Centre South	500	516	103%
VAV-C6	Centre South	310	312	101%
VAV-C7	Centre South	496	503	101%
VAV-C8	Centre North	740	745	101%
VAV-C9	Centre North	470	492	105%

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Package Unit - PAC-6.01.1

Technical Data			
Fan		Motor	
Make	Temperzone	Make / Model	--
Model	HWP 36CEKS-S2	Volts / Phase / Hz	230V/1ph/50Hz
Serial	--	kW	3.4
Type	PAC	Amps	10.1
Filter	Yes	RPM	--

Testing/Balancing Data								
Outlet No.	Outlet Type	Outlet Size mm	K Factor	Design Vel m/s	Actual Vel m/s	Design Flow L/s	Actual Flow L/s	% Design
P1-1.1	Swirl	600 x 600	1	-	-	50.0	54.0	108%
P1-1.2	Swirl	600 x 600	1	-	-	50.0	53.0	106%
P1-1.3	Swirl	600 x 600	1	-	-	50.0	54.0	108%
P1-1.4	Swirl	600 x 600	1	-	-	50.0	55.0	110%
P1-1.5	Swirl	600 x 600	1	-	-	50.0	55.0	110%
P1-1.6	Swirl	600 x 600	1	-	-	50.0	52.0	104%
TOTAL						300	323	108%

O/A	Flex	200	1	1.59	1.62	50.0	50.9	102%
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Water Reading								
Water System	Valve Brand	Valve Size	Valve Position	Kv Value	Dp (KPa)	Design Flow L/S	Actual Flow L/S	% Design
CCW	Danfoss	DN 25	3	3.01	21.7	0.33	0.36	109%

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Instrument:	Testo 420 Hood						

Readings

VAV-S1

Outlet No.	Outlet Type	Outlet Size mm	K Factor	Design Vel m/s	Actual Vel m/s	Design Flow L/s	Actual Flow L/s	% Design
S1.1	Linear	1200 x 300	1	-	-	85.0	86.0	101%
S1.2	Linear	1200 x 300	1	-	-	85.0	85.0	100%
S1.3	Linear	1200 x 300	1	-	-	85.0	87.0	102%
S1.4	Linear	1200 x 300	1	-	-	85.0	87.0	102%
S1.5	Linear	1200 x 300	1	-	-	85.0	87.0	102%
S1.6	Linear	1200 x 300	1	-	-	85.0	85.0	100%
S1.7	Linear	1200 x 300	1	-	-	85.0	86.0	101%
TOTAL						595	603	101%

VAV-S2

Outlet No.	Outlet Type	Outlet Size mm	K Factor	Design Vel m/s	Actual Vel m/s	Design Flow L/s	Actual Flow L/s	% Design
S2.1	Linear	1200 x 300	1	-	-	85.0	85.0	100%
S2.2	Linear	1200 x 300	1	-	-	85.0	84.0	99%
S2.3	Linear	1200 x 300	1	-	-	85.0	86.0	101%
S2.4	Linear	1200 x 300	1	-	-	85.0	85.0	100%
S2.5	Linear	1200 x 300	1	-	-	85.0	86.0	101%
S2.6	Linear	1200 x 300	1	-	-	85.0	85.0	100%
TOTAL						510	511	100%

VAV-S3

Outlet No.	Outlet Type	Outlet Size mm	K Factor	Design Vel m/s	Actual Vel m/s	Design Flow L/s	Actual Flow L/s	% Design
S3.1	Linear	1200 x 300	1	-	-	90.0	95.0	106%
S3.2	Linear	1200 x 300	1	-	-	90.0	91.0	101%
S3.3	Linear	1200 x 300	1	-	-	90.0	91.0	101%
S3.4	Linear	1200 x 300	1	-	-	90.0	95.0	106%
TOTAL						360	372	103%

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Instrument:	TA Scope			
Comments:	No Access to Spigots			

Condenser Water								
Unit Served	Valve Brand	Valve Size	Valve Position	Kv Value	Dp (KPa)	Design Flow L/S	Actual Flow L/S	% Design
PAC-6.01.1	Danfoss	DN 25	3	3.01	21.7	0.33	0.36	109%
PAC-6.01.2	Danfoss	DN25	5.5	6.77	4.5	0.33	0.36	109%
PAC-6.01.3	Danfoss	DN 20	1.2	0.89	77	0.19	0.20	105%
PAC-6.01.4	Danfoss	DN 20	1.4	1.03	65	0.19	0.20	105%
PAC-6.02.1	Danfoss	DN 25	3.5	3.62	28	0.44	0.47	107%
PAC-6.02.2	Danfoss	DN 20	1.7	1.23	64	0.24	0.26	108%
PAC-6.02.3	Danfoss	DN 20	1.2	0.89	77	0.19	0.20	105%
TOTAL						1.91	2.05	107%