



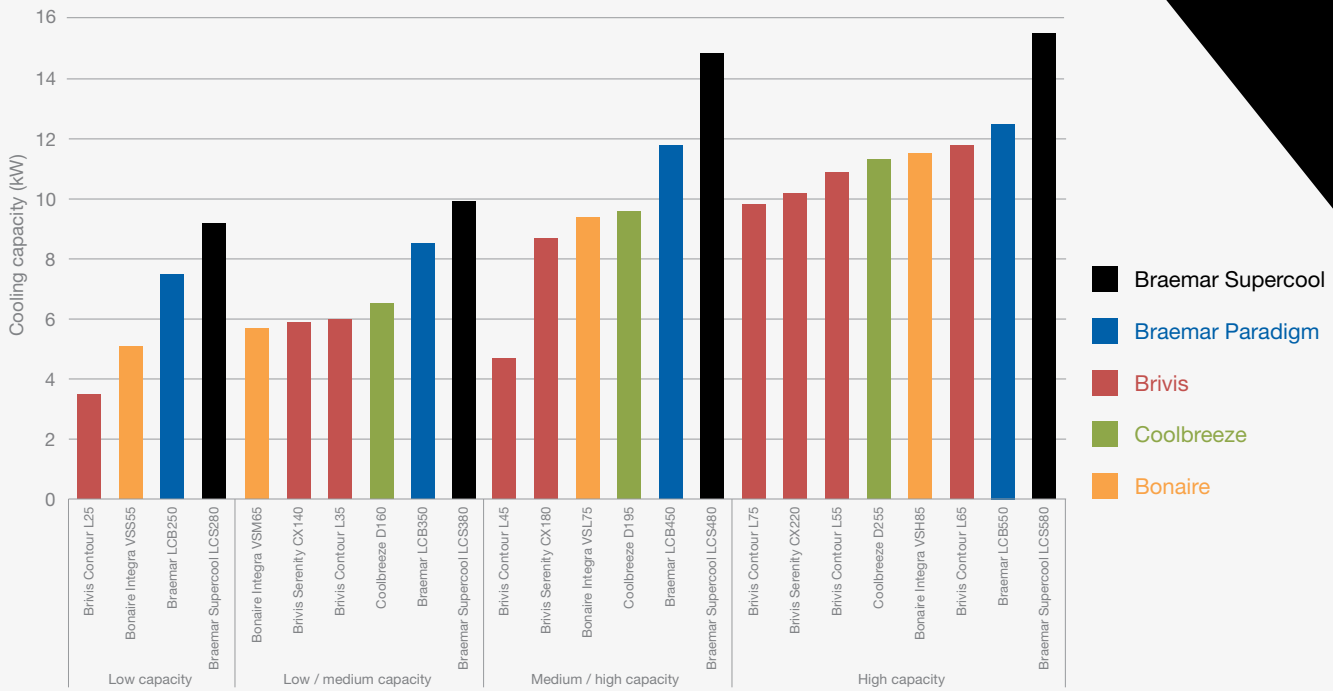
MERIDIAN TEST
LABORATORY

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Technical data sheet

Comparison of Braemar to other products

Meridian laboratory tested cooling capacity (kW)



Meridian laboratory tested cooling capacity v claimed capacity

	Model	Meridian laboratory tested cooling capacity (kW)	Claimed cooling capacity (kW)	% Variance
Low capacity	Brivis Contour L25	3.5	N/A*	N/A*
	Bonaire Integra VSS55	5.1	8.8**	-42%
	Braemar LCB250	7.3	7.3	0%
	Braemar Supercool LCS280	9.2	9.2	0%
Low / medium capacity	Bonaire Integra VSM65	5.7	11.3**	-50%
	Brivis Serenity CX140	5.9	N/A*	N/A*
	Brivis Contour L35	6.0	N/A*	N/A*
	Coolbreeze D160	6.5	12.7†	-49%
	Braemar LCB350	8.5	8.5	0%
	Braemar Supercool LCS380	9.9	9.9	0%
Medium / high capacity	Brivis Contour L45	4.7	N/A*	N/A*
	Brivis Serenity CX180	8.7	N/A*	N/A*
	Bonaire Integra VSL75	9.3	13.9**	-33%
	Coolbreeze D195	9.6	15.2†	-37%
	Braemar LCB450	11.7	11.7	0%
	Braemar Supercool LCS480	14.6	14.6	0%
High capacity	Brivis Contour L75	9.8	N/A*	N/A*
	Brivis Serenity CX220	10.2	N/A*	N/A*
	Brivis Contour L55	10.9	N/A*	N/A*
	Coolbreeze D255	11.3	17.7†	-36%
	Bonaire Integra VSH85	11.5	15.7**	-27%
	Brivis Contour L65	11.8	N/A*	N/A*
	Braemar LCB550	12.5	12.5	0%
	Braemar Supercool LCS580	15.5	15.5	0%

Test conditions

- Coolers tested as new and complete units as specified by Australian Standard AS2913-2000. Cooling capacity was not determined by testing separate components.
- Coolers tested at inlet conditions of 38 °C dry bulb and 21 °C wet bulb and cooling capacity calculated based on room temperature of 27.4 °C as specified by Australian Standard AS2913-2000.
- Cooler Airflow tested at 80 Pa Duct Static Pressure as specified by Australian Standard AS2913-2000.
- All cooler pads pre-soaked before testing.

Correct at the time of printing 09/11/15. The above data was drawn from Meridian Test Laboratory's test analysis. The testing was performed by a NATA accredited laboratory to the requirements of the Australian Standard AS2913-2000 "Evaporative Air Conditioning Equipment."

*Claimed cooling capacity was withdrawn by Brivis in early 2015. Previously, the variance between the tested and claimed cooling capacity ranged from -31% to -66% across the models.

**Claimed cooling capacities were calculated to industry standards in accordance with AS2913 -2000 - <http://www.bonaire.com.au/lib/pdf/brochures/BonaireCoolingBrochureOct2014Final.pdf>.

†Claimed cooling capacities were calculated according to AS2913-2000 under standardised conditions - <http://www.coolbreeze.com.au/wp-content/uploads/CoolBreeze-2015-Residential-Brochure-final.pdf>.





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Laboratory overview

The Meridian Psychrometric Test Laboratory is suitable for conducting performance and development testing on a range of cooling and heating products including direct and indirect evaporative coolers, refrigerated air conditioners and heat pumps.

The laboratory has two test chambers with independent control of dry bulb and wet bulb temperatures and three nozzle boxes that allow accurate measurement of a range of airflows. To enable testing of large evaporative coolers, the laboratory also has two desiccant dehumidifiers to extract additional moisture from the test chambers. The laboratory is fully PLC controlled with electronic measurement and data acquisition of all test results.

Appliance performance is calculated by measuring air conditions into and out of the appliance, airflow and power consumption.

Seeley International is Australia's only air conditioning and heating manufacturer with a NATA accredited test laboratory.



Specifications

	Test chamber 1	Test chamber 2
Chamber size	W: 8 m x L: 6.5 m x H: 4 m	W: 5 m x L: 6.5 m x H: 4 m
Dry bulb temperature	0 °C to 55 °C	0 °C to 45 °C
Dew point temperature	0 °C to 20 °C	8 °C to 15 °C
Temperature control	+/- 0.2 °C	+/- 0.2 °C
Airflow rate	100 l/sec to 3000 l/sec	100 l/sec to 1000 l/sec

Product testing capability

Product	Test Standard
Fan performance	ISO 5801
Assembled evaporative coolers	AS 2913, ASHRAE 133
Indirect evaporative coolers	ASHRAE 143
Air conditioners and heat pumps	AS/NZS 3823.1.1, AS/NZS 3823.1.2 – Capacity 9 kW

