

## FEATURES & BENEFITS

Lacools Add-On cooling range has been specifically designed and engineered to be compatible with most common Australian gas ducted heating systems. By installing an add-on cooling system, it allows you to maintain and enjoy the best heating and cooling solution throughout all seasons of the year.

The addition of a Lacool Add-On cooling system allows you to heat and cool your entire home using the existing ductwork and outlets, saving you huge costs on purchasing and installing multiple splits systems or an additional ducted refrigerated air conditioning system.

The Lacool Add-On coil is manufactured using high quality materials and intelligently designed for easy installation with most common gas ducted heaters.

- **The Lacool Blue Box** (Horizontal Add-on Coil), is known for its durability, ease of installation & servicing. The name Lacool is synonymous with the Blue Roto moulded in-line add-on cooling coils
- **Simple Installation** - Lacools horizontal coils require no additional custom transitions, and the Lacool Base Box units are designed to fit directly under the Brivis Buffalo 26 or Bonaire Rhino range, directly replacing the heater base box
- **Capacity** - A wide range of cooling capacity is available in single phase (11kW to 21kW) and three phase (15kW to 21kW)
- **Compatibility** - Simple electrical controls allows the Lacool condensing units to be compatible with the most common ducted gas heaters
- **Engineered for Australian Conditions** - Lacools condenser units are designed for Australia's extreme heat conditions and are tested up to 50°C
- **Zoning Compatible** - Lacools systems are compatible with zone controllers, allowing you to switch off the heating and cooling in areas or rooms not in use and save costs on your utility bills.
- **Flexible Integration** - With Lacools Add-On you have an option to purchase the Add-On with the heater or at a later time and integrate with your system allowing you to be smart with your budget and costs



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## ADD-ON COOLING SOLUTIONS



- Cost Effective Residential Cooling
- Fits onto existing gas ducted heating systems
- Easy Installation & Servicing
- Compatible with Zoning

### BASE BOX ADD-ON COILS

PRODUCT SPECIFICATIONS		SINGLE PHASE				THREE PHASE	
Model	Indoor Unit	LC 11-13_B20	LC 12-14_B26	LC 16-18_B26	LC 16-18_B26	LC 16-18_B26	LC 16-18_B26
	Outdoor Unit	KM36_RSVH	KM45_CSVH	KM48_CSVH	KM60_C SVC	KM48_CSYH	KM60_CSYH
Nominal Cooling Capacity	kw	10.5	13.4	15	16.6	15	17
Nominal Dehumidifying effect	kw	1.4	1.7	2.6	3.6	2.5	3.6
Moisture removal	L/hr	2.09	2.4	3.8	4.5	2.93	5.34
Rated EER	w/w	3.58	3.56	3.4	3.39	3.65	3.5
Power Supply	V/Ph/Hz	220-240/1/50				380-415/3/50	
Running current	A	15.2	18.4	25.26	26.1	7.65	9.25
Electrical Circuit Breaker/Cable		25/4mm	25/4mm	40/6mm	40/6mm	16/2.5mm	16/2.5mm
Power consumption	kw	3.47	4.26	4.82	4.9	4.8	5.9
INDOOR - Piping Connection	Ref (Liq/Gas)	9.5/15.9	9.5/19	9.5/19	9.5/19	9.5/19	9.5/19
INDOOR - Piping Connection	Ref (Liq/Gas)	3/8 5/8	3/8 3/4	3/8 3/4	3/8 3/4	3/8 3/4	3/8 3/4
OUTDOOR - Piping Connection	Ref (Liq/Gas)	9.5/15.9	12.7/19	12.7/19	12.7/19	12.7/19	12.7/19
OUTDOOR - Piping Connection	Ref (Liq/Gas)	3/8 3/4	1/2 3/4	1/2 3/4	1/2 3/4	1/2 3/4	1/2 3/4
Pipe Run (MIN/MAX)	m	3m / 30m	3m / 30m	3m / 30m	3m / 30m	3m / 30m	3m / 30m
Elevation (MAX)	m	+/- 15m	+/- 15m	+/- 15m	+/- 15m	+/- 15m	+/- 15m
INDOOR DRAIN	Drain	16mm	16mm	16mm	16mm	16mm	16mm

ADD-ON COIL SPECIFICATIONS		SINGLE PHASE				THREE PHASE	
Model	Indoor Unit	LC 11-13_B20	LC 12-14_B26	LC 16-18_B26	LC 16-18_B26	LC 16-18_B26	LC 16-18_B26
	Evaporator Coil	Face Area	0.30	0.43	0.43	0.43	0.43
Tube		9mm-Grooved					
Bi-flow Piston		#0.074"	#0.086"	#0.096"	#0.096"	#0.096"	#0.096"
	No of Rows	3	2	3	3	3	3
Min Air Flow Required	L/S	500	600	800	800	800	900
Internal static pressure drop	Pa	47	47	55	55	55	55
Unit dimensions	LxWxH	700x390x720	950x560x860	950x560x860	950x560x860	950x560x860	950x560x860
Net Weight	kg	29.7	47.4	50.3	50.3	50.3	50.3

OUTDOOR SPECIFICATIONS		SINGLE PHASE				THREE PHASE	
Model	Outdoor Unit	KM36_RSVH	KM45_CSVH	KM48_CSVH	KM60_C SVC	KM48_CSYH	KM60_CSYH
	Condensor Coil	Face Area m <sup>2</sup>	0.72	1.02	1.02	1.21	1.02
Tube		7mm-Grooved					
No of Rows		3					
Fan Blade	Type	Propellar Direct Drive					
	Diameter (mm)	560	480	480	480	480	480
	No.	1	2	2	2	2	2
Fan Motor	Type	Permanent Split Capacitor					
	No.	1	2	2	2	2	2
Compressor - Type	Type	Rotary	Scroll	Scroll	Scroll	Scroll	Scroll
Compressor - Power Supply	Power	220-240/1/50				380-415/3/50	
Refrigerant - Type	Type	R410A					
	Refrigerant - Base Charge (suits 4-12m run)	kg	3.75	4.6	5.5	6.05	4.8
Refrigerant - Additional Charge	g/mt	50	100	100	100	100	100
Expansion Device - Heating	Inch	#0.070"	#0.084"	#0.084"	#0.098"	#0.096"	#0.098"
Nominal Air High Speed	L/S	1400	2000	2000	2000	2000	2000
Sound Pressure @ 1mt	dB (A)	60/56/51	61/58/55	61/58/55	61/58/55	61/58/55	61/58/55
Sound Pressure @ 3mt	dB (A)	51/47/42	54/51/48	54/51/48	54/51/48	54/51/48	54/51/48
Unit Deminensions	HxWxD	965x970x390	1320x970x390	1320x970x390	1474x970x390	1320x970x336	1474x970x390
Packing Deminensions	HxWxD	1035x1050x455	1390x1050x455	1390x1050x455	1505x1056x430	1390x1055x455	1505x1056x430
Net Weight	Kg	90	102	106	130	106	130
Gross Weight	Kg	94	107	111	135	111	135



\* Nominal cooling capacity and electric characteristics are based on 27°C DB, 19°C WB indoor temp and 35°C outdoor

### HORIZONTAL ADD-ON COILS (BLUE BOXES)

PRODUCT SPECIFICATIONS		SINGLE PHASE					THREE PHASE		
Model	Indoor Unit	LCH 10	LCH 12-14	LCH 16-18	LCH 16-18	LCH 21	LCH 16-18	LCH 16-18	LCH 21
	Outdoor Unit	KM36_RSVH	KM45_CSVH	KM48_CSVH	KM60_C SVC	2 x KM36_RSVH	KM48_CSYH	KM60_CSYH	VM75_CSYH
Nominal Cooling Capacity	kW	10.5	13.4	15	16.6	21	15	17	21
Nominal Dehumidifying Effect	kW	1.4	1.7	2.6	3.6	2.8	2.5	3.6	3.6
Moisture removal	L/hr	2.09	2.4	3.8	4.5	4.18	2.93	5.34	5.34
Rated EER	w/w	3.58	3.56	3.4	3.39	3.25	3.65	3.5	3.3
Power Supply	V/Ph/Hz	220-240/1/50					380-415/3/50		
Running current	A	15.2	18.4	25.26	26.1	30.6	7.65	9.25	12.6
Electrical Circuit Breaker/Cable	A/mm	25/4mm	25/4mm	40/6mm	40/6mm	2 x 25/4mm	16/2.5mm	16/2.5mm	32/4mm
Power consumption	kw	3.47	4.26	4.82	4.9	7.1	4.8	5.9	6.7
INDOOR - Piping Connection	Ref (Liq/Gas)	9.5/19	9.5/19	9.5/19	9.5/19	(2x) 9.5/15.9	9.5/19	9.5/19	9.5/15.9
INDOOR - Piping Connection	Ref (Liq/Gas)	3/8 3/4	3/8 3/4	3/8 3/4	3/8 3/4	(2x) 3/8 3/4	3/8 3/4	3/8 3/4	3/8 3/4
OUTDOOR - Piping Connection	Ref (Liq/Gas)	9.5/15.9	12.7/19	12.7/19	12.7/19	(2x) 9.5/15.9	12.7/19	12.7/19	12.7/22.2
OUTDOOR - Piping Connection	Ref (Liq/Gas)	3/8 5/8	1/2 3/4	1/2 3/4	1/2 3/4	(2x) 3/8 3/4	1/2 3/4	1/2 3/4	1/2 7/8
Pipe Run (MIN/MAX)	m	3m / 30m	3m / 30m	3m / 30m	3m / 30m	3m / 30m	3m / 30m	3m / 30m	3m / 30m
Elevation (MAX)	m	+/- 15m	+/- 15m	+/- 15m	+/- 15m	+/- 15m	+/- 15m	+/- 15m	+/- 15m
INDOOR DRAIN	Drain	25mm	25mm	25mm	25mm	25mm	25mm	25mm	25mm

ADD-ON COIL SPECIFICATIONS		SINGLE PHASE					THREE PHASE			
Model	Indoor Unit	LCH 10	LCH 12-14	LCH 16-18	LCH 16-18	LCH 21	LCH 16-18	LCH 16-18	LCH 21	
	Evaporator Coil	Face Area	0.43	0.43	0.43	0.43	0.72	0.43	0.43	0.72
Tube		9mm-Grooved					7mm-Grooved	9mm-Grooved		7mm-Grooved
Bi-flow Piston		#0.071"	#0.086"	#0.096"	#0.096"	(2x) #0.093"	#0.096"	#0.096"	2x #0.093"	
	No of Rows	2	2	3	3	2	3	3	2x2	
Minimum Air Flow Required	L/S	500	600	800	900	1100	800	900	1100	
Internal static pressure drop	Pa	47	47	55	55	58	55	55	58	
Unit deminensions	LxWxH mm	900x585x400	900x585x400	900x585x400	900x585x400	900x600x400	900x585x400	900x585x400	900x600x400	
Net Weight	kg	22.6	22.6	25.5	25.5	32	25.5	25.5	32	

OUTDOOR SPECIFICATIONS		SINGLE PHASE					THREE PHASE			
Model	Outdoor Unit	KM36_RSVH	KM45_CSVH	KM48_CSVH	KM60_C SVC	2 x KM36_RSVH	KM48_CSYH	KM60_CSYH	VM75_CSYH	
	Condensor Coil	Face Area m <sup>2</sup>	0.72	1.02	1.02	1.21	2 x 0.72	1.02	1.21	1.74
Tube		7mm-Grooved								
No of Rows		3								
Fan Blade	Type	Propellar Direct Drive								
	Diameter mm	560	480	480	480	560	480	480	560	
	No.	1	2	2	2	2 x 1	2	2	2	
Fan Motor	Type	Permanent Split Capacitor								
	No.	1	2	2	2	2 x 1	2	2	2	
Compressor	Type	Rotary	Scroll	Scroll	Scroll	2 x Rotary	Scroll	Scroll	Scroll	
	Power	220-240/1/50					380-415/3/50			
Refrigerant	Type	R410A								
	- Base Charge (suits 4-12m run)	kg	3.75	4.6	5.5	6.05	3.75 x 2	4.8	5.95	7.95
	- Additional Charge	g/mt	50	100	100	100	50 each	100	100	100
Expansion device - Heating	Inch	#0.070"	#0.084"	#0.084"	#0.098"	#0.070"	#0.096"	#0.098"	#0.092"	
Nominal Air High Speed	L/S	1400	2000	2000	2000	1400 each	2000	2000	3000	
Sound Pressure @ 1mt	dB (A)	60/56/51	61/58/55	61/58/55	61/58/55	61/58/55	61/58/55	61/58/55	67/60/51	
Sound Pressure @ 3mt	dB (A)	51/47/42	54/51/48	54/51/48	54/51/48	54/51/48	54/51/48	54/51/48	60/54/44	
Unit Deminensions	HxWxD mm	965x970x390	1320x970x390	1320x970x390	1474x970x390	2*KM36	1320x970x336	1474x970x390	1552x1150x490	
Packing Deminensions	HxWxD mm	1035x1050x455	1390x1050x455	1390x1050x455	1505x1056x430	2*KM36	1390x1055x455	1505x1056x430	1720x1255x600	
Net Weight	Kg	90	102	106	130	2 x 90	106	130	148	
Gross Weight	Kg	94	107	111	135	2 x 94	111	135	173	

