

COOLING EQUIPMENT PRODUCT CATALOGUE



VERSION 1.0 ISSUE DATE: 22 MARCH 2016

SUMMARY: THIS DOCUMENT LISTS NETWORK BUILDING COOLING EQUIPMENT COMPONENTS OFFERED BY ICS INDUSTRIES.

About Us

ICS Industries offers a range of unique products for the support, maintenance and upgrade of existing equipment infrastructure and ordinary stand-alone solutions. Access to all parts and equipment is available through our Shop Division.

CONTACT DETAILS

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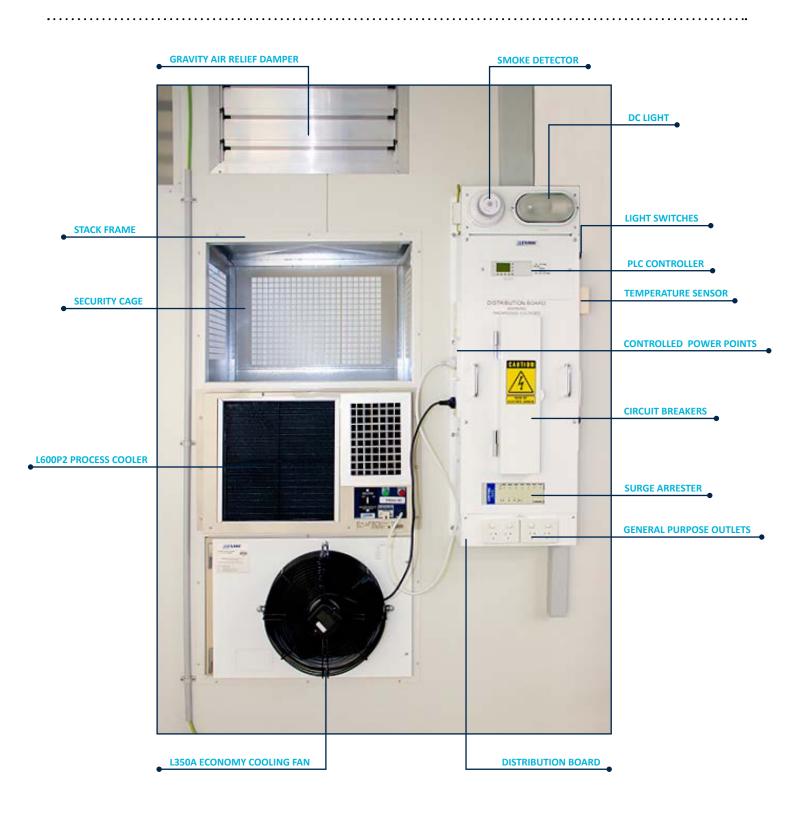
SHOP OPERATING HOURS (MON-FRI)

Office:	8:30am - 4:30pm AEDT
Warehouse:	8:30am - 3:30pm AEDT



Modular Cooling System

Overview

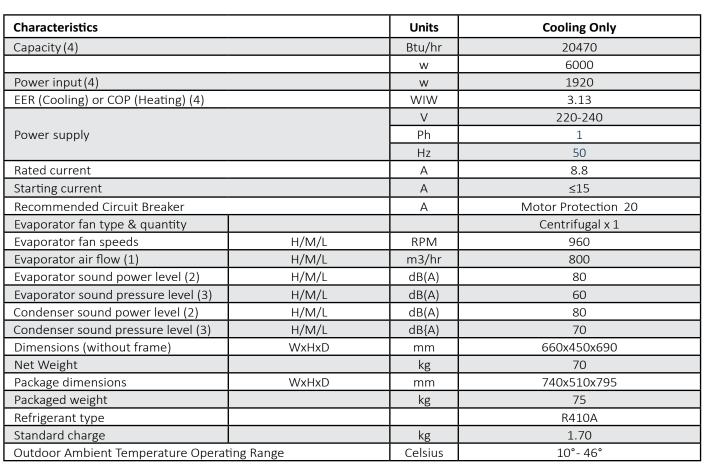




Air Conditioning 240V-AC

L600P2 Process Cooler

- Operates as a slave unit to cooling management systems.
- Supersedes MAY-180, MAY-220 and L600P.
- 6.1kW cooling capacity, 15A mains supply.
- Integrated alarm and wired control options.
- 24V-DC operating option.
- Return Air Temp (RAT) sensor.
- Indoor Coil Temp (ICT) sensor.
- DIP switches to allow bypassing of High Pressure Switch (HPS) and Return Air Temp (RAT).
- Expanded PCB with more surface mounted hardware and less wiring.
- PCB mounted RJ45 socket, Run and Fault Code lights.



(1) Airflow in ducted units; at nominal external static pressure.

(2) Sound power in ducted units is measured at air discharge.

(3) Sound pressure level measured at 1-metre distance from unit.

(4) Rating conditions in accordance to ISO 5151 and ISO 13253 (for ducted units).

Conditions: Nominal cooling capacity: 10/00 (27/19//35/24)

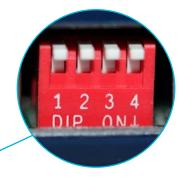




Air Conditioning 240V-AC

L600P2 Dip Switch Settings

Status	DS1	DS2	DS3	DS4
Factory Default Setting	OFF (up)	OFF (up)	OFF (up)	OFF (up)
OFF (up)	HPS engaged	RAT engaged	spare	spare
ON (down)	HPS bypassed	RAT bypassed	spare	spare





Run Light Operation

Status	Comments	RUN Light
OFF		OFF
Turned ON	When Compressor starts the ICT sensor reading is recorded by a Program Chip on the PCB [ICTcompon].	OFF
Running	Every 30sec after activation the ICT sensor reading is recorded [ICTactual].	OFF
Running	When [ICTactual] is 5° or more lower than [ICTcompon] then RUN light is activated.	ON
Turned OFF	[ICTcompon] & [ICTactual] records are cleared and the RUN program is reset.	OFF

Fault Light Operation

Status	Comments	Fault Light
Running	Under normal operation the Fault Code indicator light is not illuminated.	OFF
Not Running	If the Fault Code light is illuminated then this can be due to: • HPS has activated • RAT is shorted or disconnected (not bypassed) • ICT is shorted or disconnected	ON



Air Conditioning 240V-AC

AC-INV SPLIT MHI 3.5KW & 5.0KW



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CAREE BRA		HEAVY INDUSTRIES LTD
~	4	AIR CONDITIONING

		ICS PART NO:	ICS PART NO:	
		VAX0044	VAX0050	
	MHI Model		SRK34ZMA-S	SRK50ZMA-S
Capacity	Cooling	kW	3.3	5.0
EER			3.79	3.23
Sound Level	Outdoor	dB(A)	60	61
Not Woight	Indoor	ka	9.5	9.5
Net Weight	Outdoor	kg	35	41
Refrigerant	Quantity	kg	1.15	1.35
R410A	Pre Charged To Pipe Length	m	15	

AC-INV SPLIT MHI 6.3KW & 7.1KW







		ICS PART NO:	ICS PART NO:	
			VAX0088	VAX0089
	MHI Model	:	SRK63ZMA-S	SRK71ZMA-S
Capacity	Cooling	kW	6.3	7.1
EER			3.58	3.29
Sound Level	Outdoor	dB(A)	62	66
Not Maight	Indoor	ka	16	
Net Weight	Outdoor	kg	57	
Refrigerant	Quantity	kg	1.8	
R410A	Pre Charged To Pipe Length	m	1	5

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AC-INV SPLIT MHI 8.0KW







			ICS PART NO:
			VAX0108
	MHI Model:		SRK80ZMA-S
Capacity	Cooling	kW	8.0
EER			3.40
Sound Level	Outdoor	dB(A)	69
	Indoor	l a	16
Net Weight	Outdoor	kg	63
Refrigerant	Quantity	kg	2.2
R410A	Pre Charged To Pipe Length	m	15



Air Conditioning 48V-DC

DC Split System 48V 4.0kW

The split system is a 4KW, 48V-DC split system air conditioner used to control the temperature of a base station. Its compressor has multistage speed regulation function, ensuring small temperature fluctuation within the base station, low frequency and excellent energy saving.

ICS PART NO:

VAX0140







Parameter		DC40		
Dimensions, Weight & Mount		Indoor Unit	Outdoor Unit	
External Dimensions (Height x Width x Depth)	mm	295 x 900 x 215	700 x 870 x 310	
External Dimensions (Height x Width x Depth)		1		
With Flange		\	\	
Weight	kg	13	50	
Mounting Method		Wall mounted	Wall/Floor Mounted	
Application		Indoor	Outdoor	
Environmental Protection & Performance				
Working Temperature Range	C ⁰	-55 to +55	-55 to + 55	
Protection from Dust, Water and Wind Driven Rain		\	IP X5	
Refrigerant		R134a	R134a	
RoHS Compliant		Yes	Yes	
Cooling/Heating Capacity				
Cooling Capacity @ L35/L35	W	43	330	
Heating Capacity (Optional)		\ \		
Power Consumption				
Power Consumption @ L35/L35	W	10	042	
Rated Current @ L35/L35	А	21	1.70	
Airflow				
Internal Airflow	m³/h	1100	/	
Power Supply				
Power Supply Range	V, DC	-44	~ -58	
Rated operating voltage - Controller	V, DC		48	
Rated operating voltage - Cooling/Heating System	V, DC	-	48	
Key Components				
Controller		Envicool	Envicool	
Fans		Telecom Level	Telecom Level	
Compressor		Telecom Level	Telecom Level	
External Materials				
Sheet Metal Parts (Optional)		HIPS	SGCC + Powder Painting	
Colour (Optional)		White	RAL 7035	



Fresh Air Cooling

ECONOMY COOLING FAN L350A

- 240V-AC Fan motor works within a range of 220-240 volts
- High capacity air-flow, positive pressure cooling
- Low power consumption, 135 watts, very efficient
- Large total area-mass filters delivering long intervals between filter maintenance
- * Replacement filter kits available ICS Part No: VAK0005

ECONOMY COOLING FAN L350A-DC

- 48V-DC Fan motor works within a range of 36-57 volts
- Low power consumption, 86 watts, very efficient
- High capacity air-flow, positive pressure cooling
- Large total area-mass filters delivering long intervals between filter maintenance
- * Replacement filter kits available ICS Part No: VAK0005

L400A DOOR INCLUDING 400MM FAN

Used to increase capacity of existing L350A





*Product flyer available



ICS PART NO:

VAM0004

*Product flyer available



ICS PART NO: VAM0007

ECONOMY COOLING FAN L350A-VERTICAL

- Vertical mounting
- 240V-AC operation
- Fresh Air fan with Very Large Filter Area
- * Replacement filter kits available ICS Part No: VAK0005



ICS PART NO: VAM0002

ECONOMY COOLING FAN WITH 48V TO 240V-AC INVERTER

- 240V-AC Fan motor works within a range of 220-240 volts
- High capacity air-flow
- 48V-DC inverter to 240V-AC ICS Part No: VAX0026



ICS PART NO: VAK0006



Fresh Air Cooling

MODIFIED 48V-DC INVERTER MODULE

Used with Kentrox Control Technology Solution

L350A REPLACEMENT FILTER KIT

- Contains full set of replacement filters for L350A
- Moisture resistant cardboard frame
- Camfill Farr Filters



NO IMAGE

ICS PART NO: VAX0092

ICS PART NO:

VAK0005

FAN ADAPTER KIT FOR FSU404 TO L350

- Designed to quickly and easily replace an existing FSU404
 DC Emergency Fan with a standard Lenmic L350 fan
- Includes:
 - 240V-AC x Ø 350mm Axial Fan
 - Camfil Farr Filters

REPLACEMENT FAN MOTOR FOR L350A

- Fan AC Axial 350 / 240V AC
- Replacement fan motor shroud for L350A Economy Cooling Fan
- Four point mounting for easy install



ICS PART NO: VAK012

ICS PART NO: VAX0034

MOTORIZED DAMPER

Suitable for 600mm x 300mm opening



ICS PART NO: VAM0151



Fresh Air Cooling

ECO CONTROLLED AIR RELIEF VENT

Motorised damper suitable for 4U + AR stack frame



ICS PART NO: VAM0150

ICS PART NO:

VAX0015

ICS PART NO:

VAK0003

AIR DAMPER

- 3 x Free-Moving Swing Louvres (gravity close)
- Operated by Exhaust Draft
- Suitable for 300mm x 600mm opening



- Kit Includes:
 1 x VAX0015 and 1 x VAX0018
- Available in 3 colours:
 - PB Paper Bark PE - Pale Eucalypt SM - Surf Mist

HOOD AIR OUTLET T-TYPE

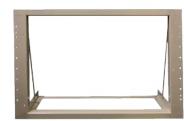
- 415mm (H) x 645mm (W) x 330mm (D)
- Available in 3 colours:
 - PB Paper Bark
 - PE Pale Eucalypt
 - SM Surf Mist



ICS PART NO: VAX0018



- Wide flange allowing install to brick and timber walls
- Support base to aid installation



ICS PART NO: VAX0094



Stackframes & Security Cages

L600P MOUNTING FRAME (SINGLE)

- Single mounting frame for L600P
- For installation of L600P and L350A Economy Cooling Fan

ICS PART NO: VAX0043

L600P SECURITY CAGE (SINGLE)

- Single security cage for L600P, also suitable for L350 Fans
- Supplied flat packed (assembly required)

Available in 3 colours:

- PB Paper Bark PE - Pale Eucalypt
- SM Surf Mist

L600P MOUNTING FRAME (2-STACK)

- Two-stack mounting frame suitable for L600P
- For installation of L600P and L350A Economy Fan
- * Blanking plate available



ICS PART NO: VAX0032

ICS PART NO:

VAX0042

L600P SECURITY CAGE (2-STACK)

- Two-stack security cage for L600P, also suitable for L350 Fans
- Supplied flat packed (assembly required)
- Available in 3 colours:
 - PB Paper Bark PE - Pale Eucalypt
 - SM Surf Mist

L600P MOUNTING FRAME (3-STACK)

- L600P 3-stack mounting frame
- For installation of L600P and L350A Economy Cooling Fan
- * Blanking plates available (x 2)



ICS PART NO: VAX0031

ICS PART NO:

VAX0007





Stackframes & Security Cages

L600P SECURITY CAGE (3-STACK)

- L600P security cage, also suitable for L350 Fans
- Supplied flat packed (assembly required)
- Available in 3 colours:
 - PB Paper Bark
 - PE Pale Eucalypt SM - Surf Mist
 - SULLIVIISE



ICS PART NO: VAX0008

ICS PART NO: VAX0043A

L600P MOUNTING FRAME / SINGLE 80MM TRIM

- To be used in older SCAX huts with hollow wall frames
- Single 80mm trim



- Internal and external 4U + AR stackframe
- For installation of L600P and L350A Economy Cooling Fan



ICS PART NO: VAX0103

L600P 4U + AR SECURITY CAGE

- L600P security cage
- Also suitable for L350A Economy Cooling Fans
- Available in 3 colours;
 - PB Paper Bark PE - Pale Eucalypt
 - SM Surf Mist

L600P 3U TO 4U + AR KIT

- Extends 3U security cage to 4U
- Available in 3 colours;
 PB Paper Bark
 PE Pale Eucalypt
 - SM Surf Mist



ICS PART NO: VAX0104



ICS PART NO: VAX0106



Stackframes & Security Cages

SPLIT AIR-CON CAGE

- Security Cage designed to suit 6.3kW and 7.1kW SRK Series Mitsubishi Split Air-con
- Galvanised heavy duty steel construction



ICS PART NO: HAX0062

ICS PART NO:

HAX0038

ICS PART NO:

HAX0096

SPLIT AIR-CON CAGE

- Security Cage designed to suit 6.3kW and 7.1kW SRK Series Mitsubishi Split Air-con
- Available in 3 colours;
 PB Paper Bark
 - PE Pale Eucalypt SM - Surf Mist
 - SIVI SUIT IVIISU

SPLIT AIR-CON CAGE

- Security Cage designed to suit 8kW SRK Series Mitsubishi Split Air-con
- Available in 3 colours;
 PB Paper Bark
 PE Pale Eucalypt
 SM Surf Mist

AIR-CON ODU WALL MOUNT FRAME

- Manufactured from rustproof galvanised steel
- Designed for use with Mitsubishi Heavy industries (MHI)
 SRK series air-conditioner outdoor units
- Designed for use with either a HAX0062 Galvanised Single Cage or a powder coated HAX0038 or HAX0096 cage



NO IMAGE AVAILABLE

> ICS PART NO: HAX0260



- Block out panel for L600P and L350A
- Covers any standard ICS stackframe hole







Blockout & Cooling Management

BLOCKOUT WALL KIT

- Pair of Sheets (50cm x 100cm) with 25mm depth of insulation.
- Supplied as 2 x sheets, colour of inside sheet is off white. Outside sheet available in 3 colours: PB - Paper Bark PE - Pale Eucalypt
 - SM Surf Mist
- Wall infill for Email Weatherwall air-conditioners

L600P MECHANICAL THERMOSTAT POWER SUPPLY CONTROL MODULE

- Basic Thermostat Control for operating one Process Cooler in an Enclosure
- Operates L600P in absence of PLC Control
- Option to wall mount

L350A CONTROL MODULE FOR LS1

- 10A, 24V-DC control contactor
- Connects to the LS1 or LS4 via a Cat5e patch cable with RJ-45 connectors
- Fitted into an internal tray in the L350A fan or mounted to the wall close to the supply outlet

L350A REMOTE MODULE RM1A

- L350A Remote module RM1A
- 10A, 24V-DC control contactor
- Connects to the LS1 or LS4 via a Cat5e patch cable with RJ-45 connectors
- Fitted into an internal tray in the L350A fan or mounted to the wall close to the supply outlet

L350A REMOTE MODULE RM1B

- 10A, 24V-DC control contactor
- Connects to the LS1 or LS4 via a Cat5e patch cable with RJ-45 connectors
- Fitted into an internal tray in the L350A fan or mounted to the wall close to the supply outlet
- External temperature sensor probe



ICS PART NO: VAM0120





ICS PART NO: EFM0004

ICS PART NO:

VAK0001





ICS PART NO: VAM0121

Cooling Management

L350A REMOTE MODULE RM1C

- Suitable for A281_3A & A281_3D
- Includes External Temp Sensor and LoopOut
- Used to make / break main supply to a room air conditioner under the control of the Alpha 2 PLC program
- Connects to the LS1 or LS4 via a Cat5e patch cable with RJ-45 connectors.

L350A REMOTE MODULE RM1D

- Includes External Temp Sensor, LoopOut and CT
- Used to make / break main supply to a room air conditioner under the control of the Alpha 2 PLC program
- Connects to the LS1 or LS4 via a Cat5e patch cable with RJ-45 connectors
- Includes Current Sensor to provide fan run signal to PLC

L350A REMOTE MODULE RM1E

- Includes External Temp Sensor, Loopout, CT and Inverter
- Designed to interface with LS1 or LS4 Control Managers





ICS PART NO: VAM0123



ICS PART NO: VAM0124

ICS PART NO:

VAM0126

L350A REMOTE MODULE TO SUIT TANDEM FANS

- Remote module to suit Tandem Fans c/w Remote Ext TS
- 10A, 24V-DC control contactor
- Connects to the LS1 or LS4 via a Cat5e patch cable with RJ-45 connectors
- Able to control up to 2 x VAK0012 L350A Fans

240V-15A CONTROL MODULE RM3A, WALL MOUNT

- Used to make / break main supply to a room air conditioner under the control of the Alpha 2 PLC program
- Connects to the LS1 or LS4 via a Cat5e patch cable with RJ-45 connectors.





Wall Mount



Cooling Management

240V-15A CONTROL MODULE RM3B, WALL MOUNT

- Includes Current Sensor to provide AC run signal to PLC
- Used to make / break main supply to a room air conditioner under the control of the Alpha 2 PLC program
- Connects to the LS1 or LS4 via a Cat5e patch cable with RJ-45 connectors.

240V-20A CONTROL MODULE RM3C,

WALL MOUNT

- Used to make / break main supply to a room air conditioner under the control of the Alpha 2 PLC program
- Connects to the LS1 or LS4 via a Cat5e patch cable with RJ-45 connectors.

RM3D & RM3C & CURRENT SENSOR

- 240V-20A Control Module RM3D, wall mounted
- Includes Current Sensor to provide AC run signal to PLC
- Used to make / break main supply to a room air-conditioner under the control of the Alpha 2 PLC program
- Connects to the LS1 or LS4 via a Cat5e patch cable with RJ-45 connectors.

24V-DC CONTROL MODULE RMS1 FOR MHI SPLIT A-C

- Wall Mount for MHI Split-AC
- Connects to an LS1 or an LS4 via a CAT5 Cable with RJ-45 connectors
- Contains MHI control module to start/stop air-conditioner via CNT Controls for elegant control

240V-20A CONTROL MODULE, RMS2 FOR NON MHI SPLIT

- Wall Mount for NON MHI Split
- Used to make / break main supply to an air conditioner under the control of the alpha 2 PLC program
- Connects to the LS1 or LS4 via a Cat5e patch cable with RJ-45 connectors.



ICS PART NO: VAM0135





ICS PART NO: VAM0132

ICS PART NO:

VAM0131



IENMIC

VAM0134

ICS PART NO: VAM0133



Cooling Management

L350A-DC REMOTE MODULE RM4A

- Includes External Temp Sensor and Loopout
- 48V-DC Module
- Wall mounted
- Controls ICS 48V-DC L350A-DC Fan, ICS Part No: VAM0004



L350A-DC REMOTE MODULE RM4B

Includes External Temp Sensor, LoopOut and CT



ICS PART NO: VAM0141

INVERTER 48V-DC 240VAC AUTO CHANGE

OVER - WALL MOUNT

- Suitable for wall mounting directly under an ICS Distribution Board or other clear spaces
- Designed to operate L350A Fan in mains failure situations
- Suitable with eJV Cooling Systems operating A2E81_3 & A2E82_3 PLC software programs



ICS PART NO: VAX0120





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