

# ICS & LENMIC PARTS and EQUIPMENT PRODUCT CATALOGUE

**VERSION 1.4**

**ISSUE DATE: 6th September 2022**

## SUMMARY:

THIS DOCUMENT DESCRIBES THE NETWORK BUILDING  
EQUIPMENT REQUIRED FOR EJV SHELTERS EXPANSION KITS,  
THE ASSOCIATED ENVIRONMENTAL MANAGEMENT SYSTEMS, POWER  
INFRASTRUCTURE AND AVAILABLE SPECIAL OPTIONS.

# 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.

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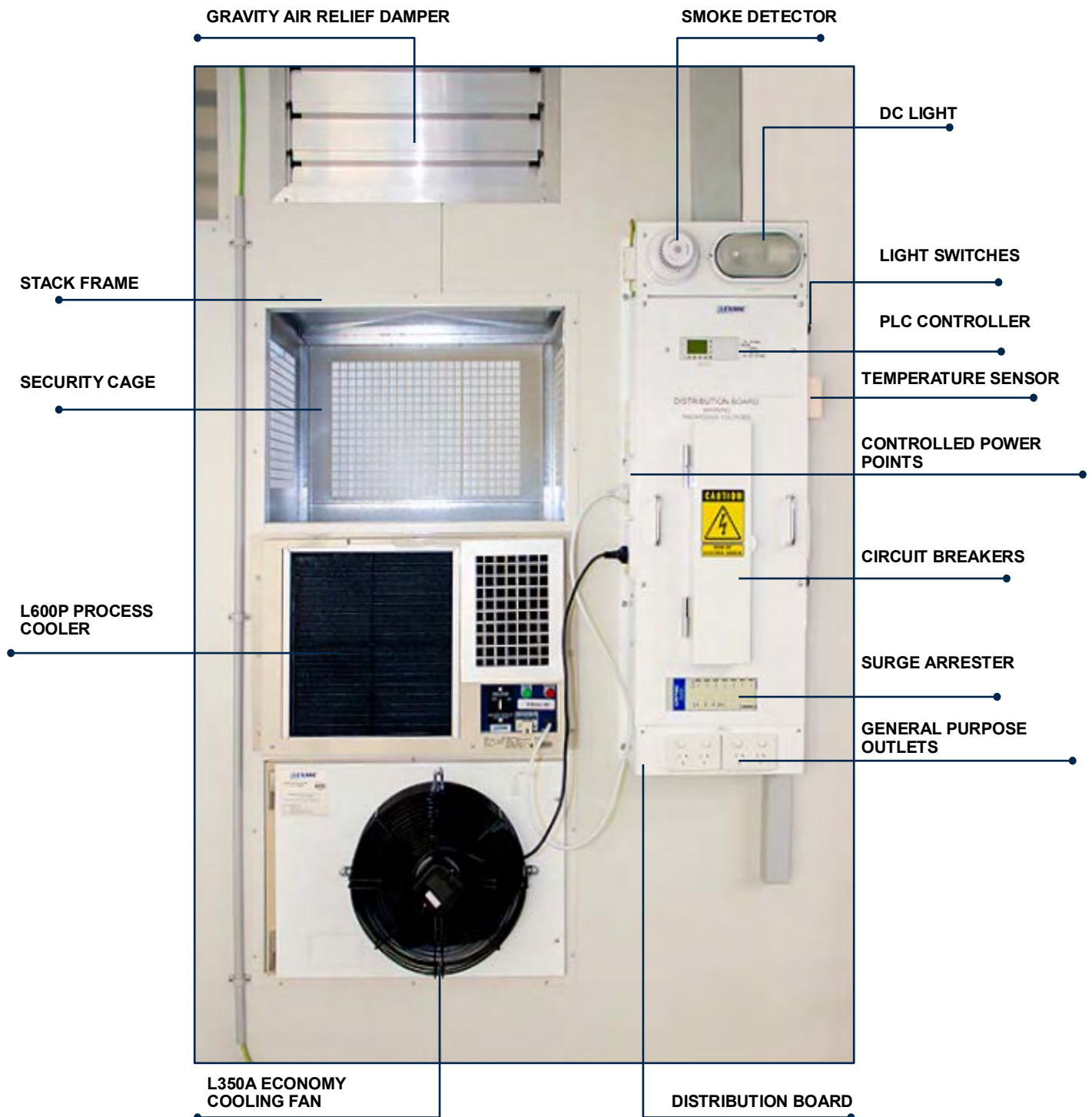
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# Modular Cooling System



# Distribution Boards

## Generic GC Type

Space saving complete unit measures 36cm wide by 112cm high.

Power management includes a mains isolator control switch to change between, mains-supply, off and generator supply.

Surge Diverter for the protection of all electricals. Configured with 11 circuits protected via individual circuit breakers.

ICS PART #

**DBK0041**

## Features

Inclusive to the cabinet;

- Electrical distribution
- Supply changeover control
- Surge protection (Critec TDX100M)
- Systems control
- Temperature sensing
- 4 x 240v 10A GPO's
- 48V-DC room light
- Integrated smoke detector
- 2 x Runback timers

Intelligent Programmable Logic Control (PLC) is pre-programmed to manage;

- Either 3 x Air-Conditioning units or 2 x Air-Conditioners & Economy Cooling Fan
- Internal room temperature management
- Smoke detection alarming
- Power fail alarming
- Surge diverter fail alarming
- Door security access alarming



**LENMIC**

Replacement globes for in-built light  
ICS Part No: **EFXGLOBE50V**

# Distribution Boards

## NSTA Type

### Remote Access Connectivity

Space saving complete unit measures 60cm wide by 150cm high.

Board is designed for single or 3-phase AC consumer mains supply with a voltage rating of 240v/415v (50Hz) and a current rating of 63A/phase.

This Board can be connected automatically or manually to a secondary power source via its inbuilt ATS (Automatic Transfer Switch) to support the connection of an Emergency Generator in case of Mains Fail.

ICS PART #

**DBM0045-A**

## Features

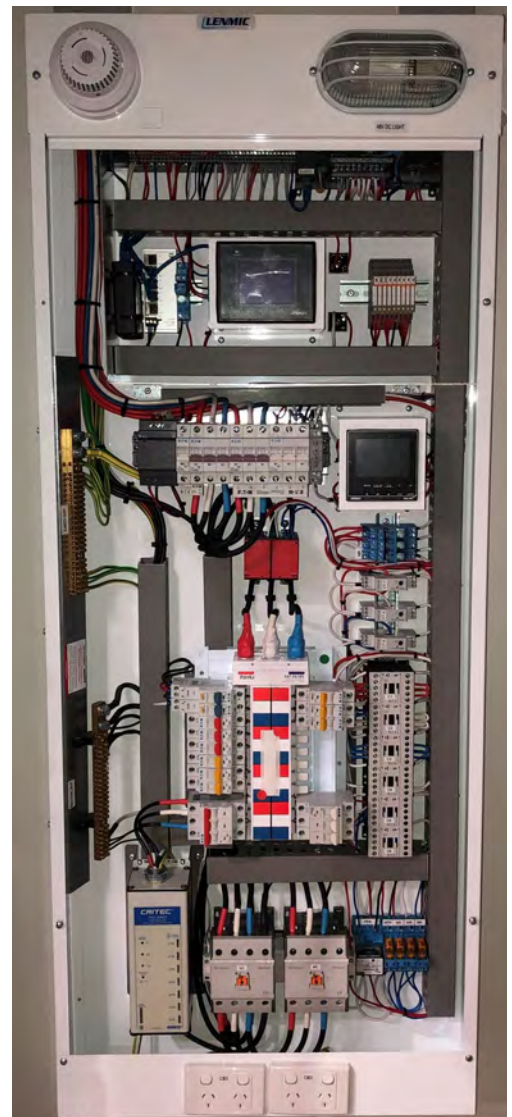
Inclusive to the Distribution Board;

- Power Meter for measuring and reporting total power consumption.
- inbuilt ATS
- Surge protection (Critec TDX100M)
- Contactors for operating up to 3x Air-Conditioners and 1x DC Cooling Fan
- 4 x 240v RCD protected 10A GPO's on the bottom face
- 48V-DC room light
- Integrated smoke detector

Monitoring & Control System

- Omron PLC with colour HMI touch screen
- BeagleBone Black (BBB) Computer
- Power Meter for measuring and reporting total power consumption.
- Modbus Hub / Temperature sensor port expander
- Ethernet Switch

One function of the BBB is to perform network address translation enabling remote access connectivity IP address.



Replacement globes for in-built light  
ICS Part No: **EFXGLOBE50V**



# Distribution Panels

## DC DISTRIBUTION PANEL-iDCDP3

- DC Distribution Panel. 2 x required and mounted in Skinny MER for DC terminations from Hybrid fibre + DC cables

### iDCDP3 OPERATION:

- Supports 3 x separate DC supply feeds each distributed to 5 x 16A Circuit Breakers
- Total Inputs: 3    Total Outputs: 15



ICS PART #

DBM0048

## DC DISTRIBUTION PANEL-iDCDP3

- 13" rack mount
- Common enclosure with range of approved configurations.
- Up to 15 circuit breakers
- 1 x 3 input model currently
- Integrated slides for improved access.
- Removable front/top cover.
- Cable management bar ensures secure cable positioning.



ICS PART #

DBM0064

Part Number	DBM0064														
Product Name	DC Dist Panel iDCDP3D 13" 3 Feed/9x40A & 3x20A CB O/P Suits 13" SMER Mount Width														
Feed	A					B					C				
Circuit Breaker	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	40A	40A	40A		20A	40A	40A	40A		20A	40A	40A	40A		20A
<ul style="list-style-type: none"><li>• 3 x DC input feeds</li><li>• 9 x 40A &amp; 3 x 20A CB outputs</li></ul>															

## IDCDP ADAPTER PLATES TO SUIT 19" RACK

- Pair of extension plates to adapt to either side of the iDCDP3 to allow the unit to fit a 19" rack where required (i.e when fitting to a 19" rack on ODU)



ICS PART #

HAX0273

## DC DISTRIBUTION PANEL-iDCDP5A

- Full width for 19" rack
- 22 x 16A Circuit Breakers
- 5 x Supply Feeds
- Feeds A, B, D, E all supply 4 x CB. C supplies 6 x CB
- Integrated slides for improved access
- Removable Front / Top Cover



ICS PART #

DBM0049

\*\* 22 x Breaker Capacity fits full 19" Rack

# Distribution Panels

## DC DISTRIBUTION PANEL-iDCDP6DA

- 19" rack mount
- Common enclosure with range of approved configurations.
- Up to 18 circuit breakers
- 1 x 2 input model, 3 x 6 input models
- Integrated slides for improved access.
- Removable front/top cover.
- Cable management bar ensures secure cable positioning.



ICS PART #

DBM0057

DBM0062

DBM0063

Part Number		DBM0057																	
Product Name		DC Dist Panel iDCDP6DA 19" 6 Feed/18x20A CB O/P Suits 19" MER Mount Width																	
Feed	A			B			C			D			E			F			
Circuit Breaker	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	20A	20A	20A	20A	20A	20A	20A	20A	20A	20A	20A	20A	20A	20A	20A	20A	20A	20A	
<div>• 6 x DC input feeds</div> <div>• 18 x 20A CB outputs</div>																			

Part Number		DBM0063																	
Product Name		DC Dist Panel iDCDP6C 19" 6 Feed/12x40A & 6x20A CB O/P Suits 19" MER Mount Width																	
Feed	A			B			C			D			E			F			
Circuit Breaker	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	40A	40A	40A	40A	40A	40A	20A	20A	20A	20A	20A	20A	40A	40A	40A	40A	40A	40A	
<ul style="list-style-type: none"><li>• 6 x DC input feeds</li><li>• 12 x 40A &amp; 6 x 20A CB outputs</li></ul>																			

Part Number		DBM0062																	
Product Name		DC Dist Panel iDCDP6B 19" 6 Feed/10x32A & 3x20A CB O/P Suits 19" MER Mount Width																	
Feed	A			B			C			D			E			F			
Circuit Breaker	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	32A	32A		32A	32A		32A	32A		20A	20A	20A	32A	32A		32A	32A		
<div>• 6 x DC input feeds</div> <div>• 10 x 32A &amp; 3 x 20A CB outputs</div>																			



# Cooling Management

## CONTROL PANEL V-TYPE

- The Control Panel V-Type (430 W x 300mm H) is designed for retrofitting existing infrastructure
- Controls the L350A Economy Cooling fan as the 1st stage of cooling, and then selectable on site for the management of 1 or 2 air-conditioning units.
- PLC Program upon request



ICS PART #

DBM0005E

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## COOLING CONTROL RETROFIT MANAGEMENT SYSTEM

- Standard unit with smoke detector, temperature sensor and Mitsubishi AL2-14MR-D Controller
- Integrated contactors and current transformers for managing various cooling equipment



ICS PART #

DBM0019

## POWER HOUSING COOLING CONTROL FOR DC ONLY SITES

- Hybrid 48V-DC only operation
- Smoke detector
- Designed to support DC cooling equipment
- Ideal for Solar Sites



ICS PART #

DBM0028

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## LS1 PLC COOLING MANAGER, 48V-DC

- Designed for use with L600P Process Coolers
- (Mitsubishi AL2-14MR-D) is pre-programmed to manage the internal room temperature and a series of voltage free alarms
- Now with an integrated Smoke Detector
- Includes 2 x 2m patch leads



ICS PART #

DBM1000

# Cooling Management

LS4 PLC COOLING MANAGER, 1-4x L600P & 1x L350A  
OR L355D, 48vDC OPERATION

ICS PART #

DBM1002

- Designed for use with our expanded Modular Cooling Solution
- PLC (AL2-24MR-D) is pre-programmed to manage up to 5 Active Cooling products typically 1-4x L600P Air-conditioners and 1x L355D or L350A Fresh-air Cooling Fans.
- Internal Room Temperature Sensor and Smoke Detector are included on demountable brackets to enable optimal placement when installing.
- Integrated voltage free contacts for Cooling related alarms



## 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



ICS PART #

EFM0004

## 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



ICS PART #

VAX0120

## 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 #

VAX0121

## L350A REMOTE MODULE RM1C

- **Suitable for ECON81 Software**
- 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.



ICS PART #

VAM0122

\* eJV cooling compatible

# Cooling Management

## 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



ICS PART #

VAM0123

## L350A REMOTE MODULE RM1E

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



ICS PART #

VAM0124

## 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



ICS PART #

VAM0126

## 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

ICS PART #

VAM0130

## 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
- Wall mounted conditioner under the control of the Alpha 2 PLC program
- Controls ICS 48V-DC L350A-DC Fan, ICS Part No: VAM0004
- Connects to the LS1 or LS4 via a Cat5e patch cable with RJ-45 connectors.



ICS PART #

VAM0131

# Cooling Management

## 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.



ICS PART #

VAM0132

## 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.



ICS PART #

VAM0133

## 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-con via CNT Controls for elegant control



ICS PART #

VAM0134

## 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 #

VAM0135

# 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



ICS PART #

VAM0140

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## L350A-DC REMOTE MODULE RM4B

- Includes External Temp Sensor, LoopOut and CT



ICS PART #

VAM0141

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## DC CONVERTER 25W 48VDC-24VDC

### DIN RAIL MOUNTING

- DC Converter 25W 48V-DC to 24V-DC x 1 AMP
- Typically used to operate PLC and Smoke Detector
- DIN rail mounting
- Measures 83 x 60 x 50mm



ICS PART #

EFDCCON-025W

## DC CONVERTER 25W 48VDC-24VDC

### SURFACE MOUNTING



ICS PART #

EFDCCON-025W.SM

## DC CONVERTER 30W 48VDC-24VDC DIN RAIL MOUNTING MW DDR-30L-24



ICS PART #

EFDCCON-030W



# PLC's & Software Programs

## PLC AL2-14MR-D PROGRAMMED WITH STANDARD VERSION SOFTWARE

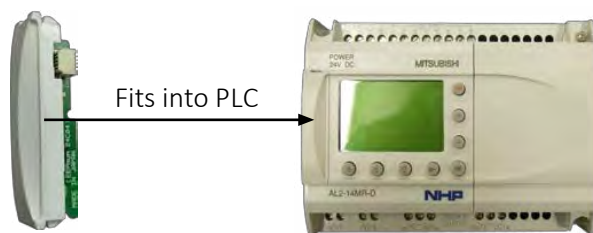
- Replacement PLC for Lenmic Control Panels, excluding LS4
- Suitable for Control Panels and Distribution Boards
- Pre-Programmed to suit



ICS PART #

EFK0020

## SOFTWARE PROGRAMS



### PROGRAMMED EEPROM A2

Eeprom A2 [OptEC5.7] Econ Cool,  
240vAC contactors

ICS PART #

EFX0150

ICS PART #

EFX0155

### PROGRAMMED EEPROM A2

Eeprom A2 [OPT22A] Air Con Cool,  
240vAC contactors

ICS PART #

EFX0151

### PROGRAMMED EEPROM A2

Eeprom A2E81\_3D 3-L600P & 1-L350A , 24DC cts

### PROGRAMMED EEPROM A2

Eeprom A2 [OPT22D] Air Con Cool,  
24vDC contactors

ICS PART #

EFX0152

### PROGRAMMED EEPROM A2

Eeprom A2E82\_3A 3-L600P & 1-L350A ,  
240AC, cts

ICS PART #

EFX0156-A

### PROGRAMMED EEPROM A2

Eeprom A2 [OptEC6.8] Econ Cool, 24vDC  
contactors

ICS PART #

EFX0153

### PROGRAMMED EEPROM A2

Eeprom A2E82\_3D 3-L600P & 1-L350A , 24DC cts

ICS PART #

EFX0156-A

### PROGRAMMED EEPROM A2

Eeprom A2E81\_3A 3-L600P & 1-L350A,  
24vDC contactors

ICS PART #

EFX0154

# Air Conditioning 240V-AC

AC-INV SPLIT MHI 3.5KW & 5.0KW			ICS PART NO: VAX0045	ICS PART NO: VAX0050
	MHI Model:		SRK35ZSA-W	SRK50ZSA-W
Capacity	Cooling	kW	3.3	5.0
EER			3.79	3.23
Sound Level	Outdoor	dB(A)	60	61
Net Weight	Indoor	kg	9.5	9.5
	Outdoor		35	41
Refrigerant R32	Quantity	kg	1.15	1.35
	Pre Charged To Pipe Length	m	15	



AC-INV SPLIT MHI 6.3KW & 7.1KW			ICS PART NO: VAX0088	ICS PART NO: VAX0089
	MHI Model:		SRK63ZSA-W	SRK71ZSA-W
Capacity	Cooling	kW	6.3	7.1
EER			3.58	3.29
Sound Level	Outdoor	dB(A)	62	66
Net Weight	Indoor	kg	16	
	Outdoor		57	
Refrigerant R32	Quantity	kg	1.8	
	Pre Charged To Pipe Length	m	15	

AC-INV SPLIT MHI 8.0KW			ICS PART NO: VAX0108
	MHI Model:		SRK80ZSA-W
Capacity	Cooling	kW	8.0
EER			3.40
Sound Level	Outdoor	dB(A)	69
Net Weight	Indoor	kg	16
	Outdoor		63
Refrigerant R32	Quantity	kg	2.2
	Pre Charged To Pipe Length	m	15



# Air Conditioning 240V-AC

## L600P2 Process Cooler

- Designed to operate a slave unit to cooling management systems.
- Supersedes MAY-180 and MAY-220
- 6.1kW cooling capacity, 15A mains supply
- Integrated alarm and wired control options.



ICS PART #

VAX0091

## OPERATION

The L600P is an air-conditioner designed exclusively for cooling equipment and operates as a slave unit to a Cooling Management System. The L600P must be connected in accordance with the scenarios below.

### Scenario 1 = PLC Control via switching Mains Power supply to L600P

- Set the control plate to the side of "the 24v Wired Control OFF" (Black face)
- Plug the L600P power cord into the appropriate PLC controlled 15A GPO, turn ON the GPO
- Turn the isolator control switch from "OFF" to "ON" (Fig. 4)
- Check PLC software version
- Test operation of PLC & all cooling equipment as per PLC software overview documentation.

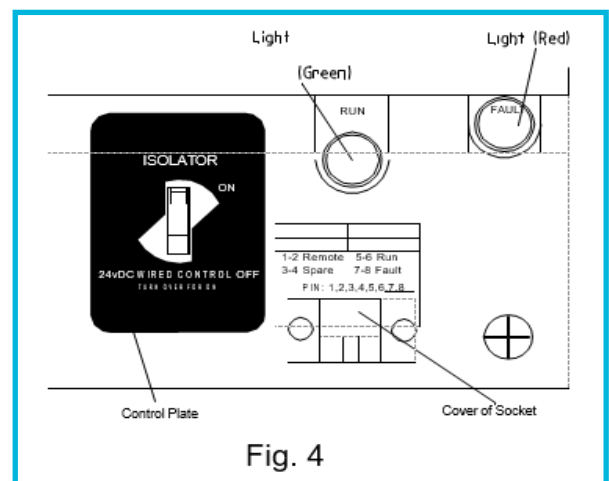


Fig. 4

### Scenario 2 = PLC control via 24V-DC Remote Wired Control to L600P

- Set the control plate to the side of "the 24v Wired Control ON" (White face)
- Remove the cover of the RJ-45 socket
- Insert the RJ-45 plug into the socket, and re-mount the RJ-45 connector cover
- Turn the isolator control switch from "OFF" to "ON"
- Plug the L600P power cord into the appropriate constant supply 15A GPO, turn ON the GPO.
- Check PLC software version
- Test operation of PLC & all cooling equipment as per PLC software overview documentation.

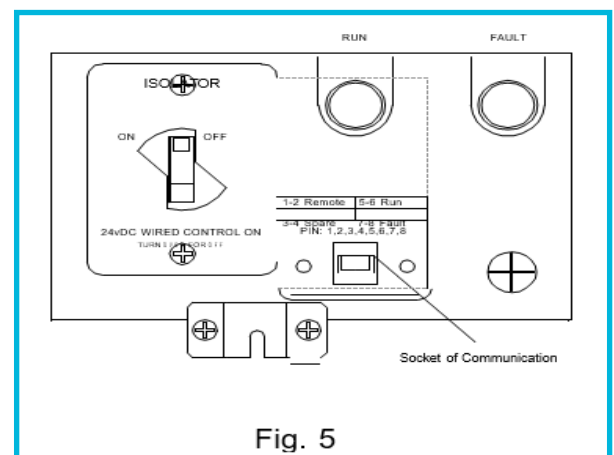


Fig. 5

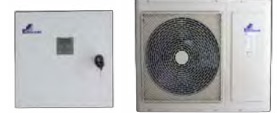
# Air Conditioning 48V-DC

## DC Split System

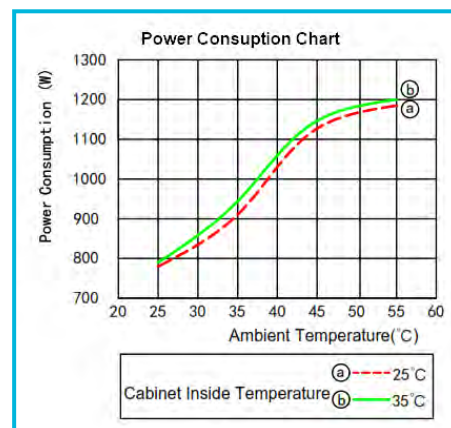
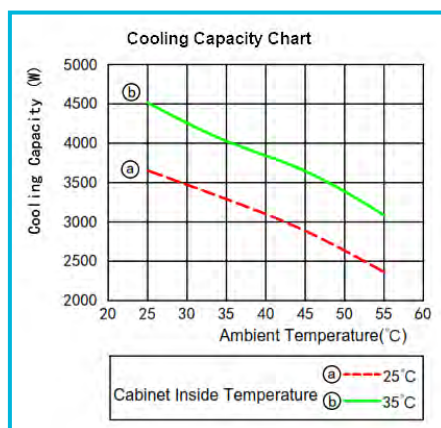
### Product Design Feature

This series of the products can be widely used in for BTS, Computer room, IDC data center

- Designed with all DC driven components like fans, compressor
- Precise temperature control through inverter digital regulation of compressor, fans
- Power supply voltage range: DC44~57 V
- A comprehensive self-protection design to realize partial load starting, partial load operation at severe ambient condition.
- Low power consumption design with EER $\geq$ 4, SEER $\geq$  6, Energy saving reach to 50% comparing with A.C.version product
- Split air conditioner, Make Internal and external circulation completely isolated & fit for T3 high temperature working condition by using of R134a refrigerant gas
- The best choice for solar / wind / battery power supply cooling demand. Multiple self protection design & Interchangeable monitoring software interface, RS485 communication through MODBUS protocol
- Indoor unit installed cross-flow fan, the noise is lower, blowing distance further and air more even



Power Supply DC	-48V(-44V~-57V)	EER	4.1 @L35/L35 2.7 @L35/L55
Cooling capacity	4000W @L35/35	Refrigerant	R134a
Cooling Consumption	960W @L35/L35	Working Temperature Range	-15 Deg~+55 Deg
Cooling capacity	3050W @L35/L55	Max Noise Level	59dB(A) (Indoor unit) 61dB(A) (Outdoor unit)
Cooling Consumption	1200W @L35/L55	IP Grade	IPX4 (Outdoor unit)
Max current	28A	Net Weight	21kg (Indoor unit) 35kg (Outdoor unit)
Internal Airflow	1000 m <sup>3</sup> /h	Dimensions	1045×210×314 (Indoor unit) 766×273×528 (Outdoor unit)
Temperature setting range	+20 Deg ~+40 Deg	CE&RoHS Compliant	YES
Environment condition	T3	Surface Treatment	Outdoor type powder coating standard color: RAL7035



# Fresh Air Cooling

## L355D 48V Variable Speed High Capacity Cooling Fan Solution

ICS PART #

VAK0019

The L355D Variable speed Single 355mm 48V-DC Cooling Fan solution kit has been designed to complement the Lenmic range of Fans and Process Coolers and provide enhanced cooling for less power use, as well as operating on 48V-DC, it works as either primary or emergency only cooling fans.

Fitting into our traditional 1, 2, 3 or 4 stack frame and security cage arrangement, it provides higher capacity airflow using 48V-DC power and variable speed.

The Fan uses MERV-8 replaceable filters to ensure air entering the room is clean and dust free.

Coupled with our PLC and EFX0089 Fan Controller, it can automatically sense room temperature and adjust fan speed accordingly, it can bring in enough fresh air required to maintain optimal room temperature, using as little power as needed while minimising noise.

An EFX0068 external temperature sensor can be included for high efficiency cooling.

### Associated Parts



**VAK0022**  
**L355D &  
Connection  
Board**



**EFX0068**  
**External  
Temp  
Sensor**



**EFX0089**  
**FAN CONTROLLER  
MODULE**



**DBM1001 / DBM1002**  
**LS Series Controller**



**EFX0274**  
**Centrifugal Fan  
Connection PCB**





# Fresh Air Cooling

## Specifications

### L355D

Medium Capacity Single 355mm 48V-DC Centrifugal Fan



Max Flow: 2800 m<sup>3</sup>/h , 770 l/s

Flow installed as cooling solution kit: 2400 m<sup>3</sup>/h, 666 l/s

Noise: 74.0 dBA @ 100% speed

Power Input: 220W

4.6A @ 48V-DC

Size (W x H x D): 660 x 450 x 690mm

Filtration: 2 x 100mm & 1 x 50mm MERV8 Filters

The L355D utilises one 355mm diameter EC Centrifugal fan to provide large airflow figures for a small form fan module. The fan impeller is made from aluminium for long service life.

This cooling fan was developed as either a retrofit option to the ICS L350A fan, fitting into an existing ICS Stack frame, as well as a fully assembled unit.

The three MERV-8 filters are accessible by sliding out the fan unit, after opening the door, allowing the filters to be easily swapped out in the same manner as the L350A.

The L355D centrifugal DC fan can be upgraded into existing infrastructure using a number of control options depending on desired functionality.

Control Options	PLC Only	FTC Only	PLC + FTC	PLC + Ext Temp Sensor	PLC, FTC + Ext Temp Sensor
New PLC software required	No <sup>1</sup>	N/A	Yes	Yes <sup>2</sup>	Yes
Variable Speed Option	✗	✓	✓	✗	✓
PID Loop Control for Economy Fan	✗	✗	✓	✓	✓
Ext Temp Sensor for High Efficiency Cooling	✗	✗	✗	✓	✓
Powered by DC System. Works during mains failure	✓	✓	✓	✓	✓
Quieter Running Overnight (Capable)	✗	✓	✓	✗	✓

<sup>1</sup> Replacement of existing L350 eco-fan

<sup>2</sup> When installing a new external temp sensor

# 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



ICS PART #

VAM0001

*\*Product flyer available*

## 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 #

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

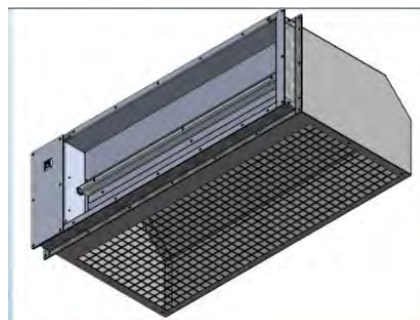


ICS PART #

VAK0006

## MOTORIZED VENT & HOOD SLIMLINE

- Suits 835mm x 245 opening



ICS PART #

VAM0152

# Fresh Air Cooling

## 48V-DC INVERTER MODULE FOR L350A

- 48V-DC inverter to 240V-AC
- Designed to fit into L350A Fan
- Provides emergency DC cooling



ICS PART #

VAX0026

## FAN AC AXIAL 350 / 240V AC

- Replacement fan motor shroud for L350A fan
- Four point mounting for easy install



ICS PART #

VAX0034

## L350A REPLACEMENT FILTER KIT

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

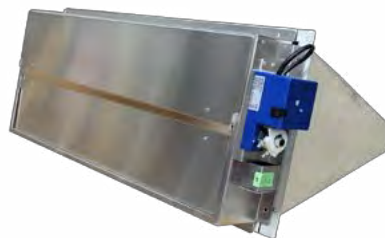


ICS PART #

VAK0005

## ECO CONTROLLED AIR RELIEF VENT

- Suitable for 4W stack frame



ICS PART #

VAM0150

# Fresh Air Cooling

## AIR DAMPER

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

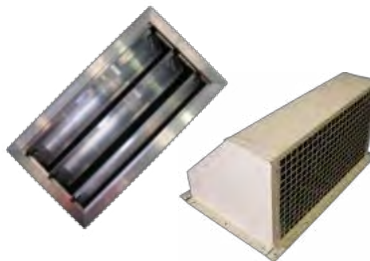


ICS PART #

VAX0015

## HOOD & NON-RETURN DAMPER

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



ICS PART #

VAK0003

## MOTORISED DAMPER

- Suitable for 600mm x 300mm opening
- Used in conjunction with VAX0018



ICS PART #

VAM0151

## 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 #

VAX0018

# Cooling Upgrade Kits

## Cooling Kit 1

This cooling kit includes all major components required and consists of a full 4 x stack cage for upgrade of sites without an existing 3 x stack cage or that have a 3 x stack cage in unsuitable condition for conversion. Kits are available in 3 x colours (cage) and with 2 x Eeprom variations to suit contactor type in distribution board which is determined by suffix in part number.

ICS PART #

VAK2001

ie: VAK2001 PBD – Cooling Kits 1 in Paperbark and Eeprom to suit DC contactors (does not refer to 'DC' air-conditioning).

PARTS INCLUDED				
PART NO	Product Name	NOTES	ORIGIN	UOM
VAX0103	L600P 4U + AR Wall Chassis		A	1
VAX0104	L600P 4U + AR Security Cage	Colour as ordered Paper Bark (PB), Pale Eucalypt or (PE) or Surf Mist (SM).	A	1
VAM0150	Eco Controlled Air Relief Vent		B	1
VAM0122	L350A Remote Module RM1F Incl. External Temp Sensor & Damper Contr Out		B	1
EFX0058-5	Patch Lead CAT5e 5m Long		D	1
EFX0058-3	Patch Lead CAT5e 3m Long		D	1
VAX0091	L600P Process Cooler		C	1
EFX0154	Eeprom A2 [A2E81_3A] 3-L600P & 1-L350A, 240V-AC contactors	Eeprom as ordered to suit the operation of (AC or DC) contactors as per existing distribution board. DC contac- tor (D), AC contactor (A).	C	1
EFX0155	Eeprom A2 [A2E81_3D] 3-L600P & 1-L350A, 24V-DC contactors			

**Please Note:** The following PLC Program required will be determined by the existing PLC.

PART NO	DETAILS	CONTACTOR TYPE	COLOUR	UOM
VAK2001	VAK2001PBD	DC	Paper- bark Eucalypt Surf Mist	Kit
	VAK2001PED			
	VAK2001SMD			
	VAK2001PBA	AC		
	VAK2001PEA			
	VAK2001SMA			

### ORIGIN KEY

- A** Designed & Manufactured by ICS Industries in Australia
- B** Designed & Manufactured by ICS Industries using some imported components
- C** Designed by ICS Industries and Manufactured offshore
- D** Fully imported product

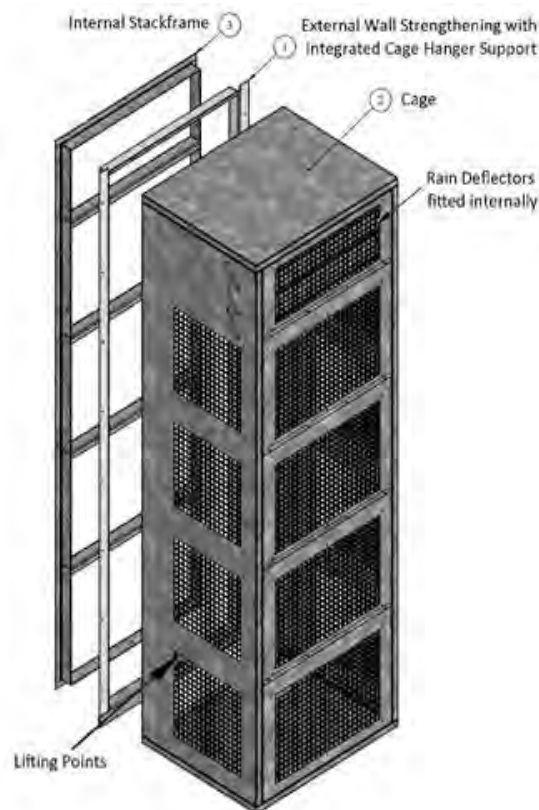


# Cooling Upgrade Kits

## Cooling Kit 1

For upgrade sites that are not fitted with a 3 stacker frame and security cage.

Cooling Upgrade Kit includes all the major parts required and comes available with Security Cage in 3 colours and with 2 versions of PLC Eeprom to suit the operation of (AC or DC) Air-Conditioner contactors.



BEFORE



AFTER

# Stackframes & Security Cages

## L600P MOUNTING FRAME (SINGLE)

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



ICS PART #

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



ICS PART #

VAX0042

---

## L600P MOUNTING FRAME (2-STACK)

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



ICS PART #

VAX0032

---

## 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



ICS PART #

VAX0031

# Stackframes & Security Cages

## L600P MOUNTING FRAME (3-STACK)

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



ICS PART #

VAX0007

## 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



ICS PART #

VAX0008

## L600P 4U + AR WALL CHASSIS

- Internal and external L600p 4U stackframe
- Available in 3 colours;
  - PB - Paper Bark
  - PE - Pale Eucalypt
  - SM - Surf Mist



ICS PART #

VAX0103

## L600P 4U + AR SECURITY CAGE

- L600P security cage
- Available in 3 colours;
  - PB - Paper Bark
  - PE - Pale Eucalypt
  - SM - Surf Mist



ICS PART #

VAX0104

## 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 #

VAX0106

# Stackframes & Security Cages

## SPLIT AIR-CON CAGE

- Security Cage designed for use with any SRK series Mitsubishi Split Air-con
- Galvanised heavy duty steel construction



ICS PART #

HAX0062

## BLOCKOUT PANEL

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



ICS PART #

VAX0011

## BLOCK OUT 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

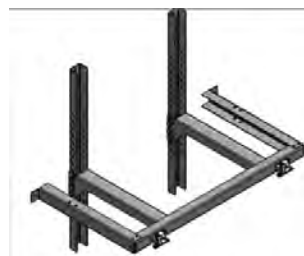
- Wall infill for Email Weatherwall Air-Conditioners



ICS PART #

VAK0001

## AIR CON ODU WALL MOUNT SUPPORT FRAME



ICS PART #

HAX0260

# Air Conditioning (Cabinets)

## CABINET AC 240V-AC 300W & 800W

			ICS PART NO:	ICS PART NO:
			VAX0220	VAX0223
Capacity	Cooling	W	300	800
Airflow	Internal	m³/h	100	440
Sound Level	Outdoor	dB(A)	60	60
Net Weight		Kg	14	32
Ambient Temp	Operating Range	°C	-40 ~ +55	

## CABINET AC 240V-AC 300W—2500W

				ICS PART NO:	ICS PART NO:
			VAX0224	VAX0225	VAX0227
Capacity	Cooling	W	600	1500	2500
Airflow	Internal	m³/h	440	450	660
Sound Level	Outdoor	dB(A)	65	61	61
Net Weight		Kg	30	38	38
Ambient Temp	Operating Range	°C	-40 ~ +55		



## CABINET DC 48V-DC 2.5KW

			ICS PART NO:	ICS PART NO:
			VAX0235	VAX0233
Capacity	Cooling	W	2500	1000
Sound Level	Outdoor	dB(A)	65	65
Net Weight		Kg	57	27
Ambient Temp	Operating Range	°C	-15 ~+ 55	-40 ~+55



# Air Conditioning (Cabinets)

## THERMO-ELECTRIC COOLERS

### 48V-DC 226W

- Thermo-electric cooling method with no compressor, refrigerant or moving parts
- Robust, no maintenance, long life closed loop active cooler
- Internal temperature can be controlled to within  $\pm 0.5^{\circ}\text{C}$
- IP56 rating

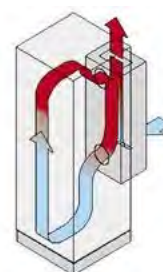


ICS PART #

VAX0220

## HEAT EXCHANGER 60W / K x 48V-DC

- Cooling Capacity: 60W
- Air Flow:  $360\text{m}^3/\text{h}$
- Sound Level: 50dB(A)
- Net Weight: 21Kg
- Operating Range:  $-40 \sim +70^{\circ}\text{C}$

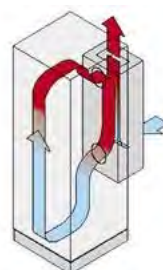


ICS PART #

VAX0331

## HEAT EXCHANGER 120W / K x 48V-DC

- Cooling Capacity: 120W
- Air Flow:  $700\text{m}^3/\text{h}$
- Sound Level: 57dB(A)
- Net Weight: 38Kg
- Operating Range:  $-40 \sim +70^{\circ}\text{C}$



ICS PART #

VAX0335

## FAN CENTRIFUGAL 48V-DC x 175MM

- Cooling Capacity: 35W
- Air Flow:  $510\text{m}^3/\text{h}$
- Sound Level: 70dB(A)
- Operating Range:  $-25 \sim +60^{\circ}\text{C}$



ICS PART #

VAX0070

## FAN CENTRIFUGAL 48V-DC x 220MM

- Cooling Capacity: 101W
- Air Flow:  $639\text{m}^3/\text{h}$
- Sound Level: 79dB(A)
- Operating Range:  $-25 \sim +60^{\circ}\text{C}$

ICS PART #

VAX0071

# Air Conditioning (Cabinets)

## CABINET DROP DOWN FAN ASSEMBLY

### 175MM FAN

- Drop down fan unit to suit Outdoor Cabinet
- 175mm Fan
- Suitable for replacement parts
- Complete with replacement cassette and frame



ICS PART #

VAM0008

## CABINET DROP DOWN FAN ASSEMBLY

### 220MM FAN

- Drop down fan unit to suit Outdoor Cabinet
- 200mm Fan
- Suitable for replacement parts
- Complete with replacement cassette and frame



ICS PART #

VAM0009

## AIR FILTER 495 x 395 x 50 PLEAT

- Camfil Farr Filter
- 495 x 395 x 50mm



ICS PART #

VAX0027

## AIR FILTER 495 x 395 x 100 PLEAT

- Camfil Farr Filter
- 495 x 395 x 100mm



ICS PART #

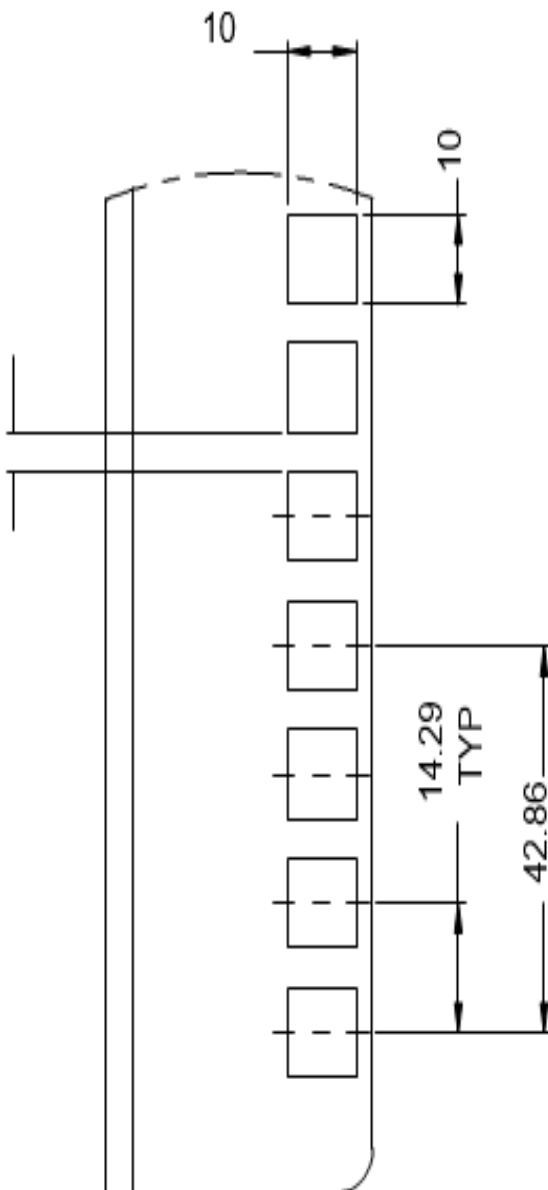
VAX0028

# Racks

## Rack Profiles

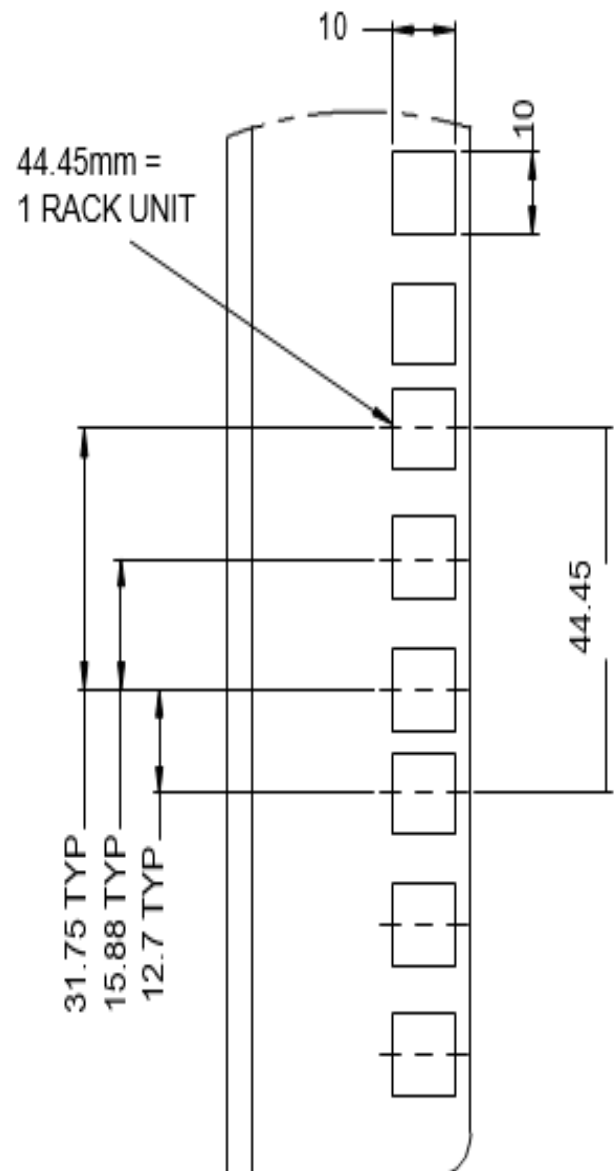
### ESU PROFILE

Equally Spaced Unit



### RU PROFILE

Rack Unit

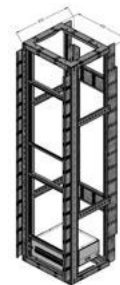


# Racks

## ICS SKINNY MER 37ESU RACK

- Skinny MER located under gland plate window.
- Dimensions (mm): 400 W x 400 D x 1780 H
- Houses Fibre Management Tray (FMT – Not Supplied) and 2 x DC Distribution Panel (iDCDP) for termination of hybrid fibre + DC cables.

\* Steel shelves available as optional extra only: ICS Part No: RFX0080



ICS PART #

RFX0079

## ICS MER 37ESU RACK

- Galvanised steel construction
- Dimensions (mm): 555 W x 571 D x 1780 H
- Integrated cable management
- 1 x Shelf
- Full length copper earth rail



ICS PART #

RFX0023

## ICS BTSMER 37RU RACK SHELF

- Shelf to suit RFX0023



ICS PART #

RFX0021

## ICS MER 47ESU RACK

- Can be bayed to another ICS MER 47ESU using RFX0111, refer drawings
- Dimensions (mm): 560 W x 400 D x 2160 H
- Racks sold separately



ICS PART #

RFX0013

## SHELF SUITS MER46 & MER 47 RACK



ICS PART #

RFX0014

# Racks

## ICS MER 46RU RACK

- Galvanised steel construction
- Dimensions (mm): 555 W x 450.5 D x 2160 H
- Integrated cable management
- 1 x Shelf
- Full length copper earth rail

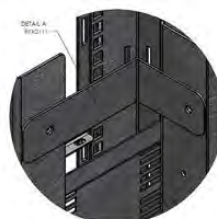


ICS PART #

RFX0050

## BAYING BRACKETS MER 47ESU ASSEMBLY

- Used to secure 2 x MER 47ESU Racks to each other

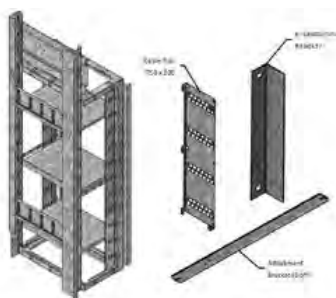


ICS PART #

RFX0111

## 28ESU / 2300RRU RACK ASSEMBLY

- 19" SU ANSI Rack fabricated from galvanised steel construction
- Used for the installation of 2300RRU's
- Includes shelf for other equipment



ICS PART #

RFK0120

## 19" SHELF ASSEMBLY FOR 1 - 6 UNITS

- Shelf assembly for Huawei BTS3900 RFU's
- Fabricated from galvanised steel

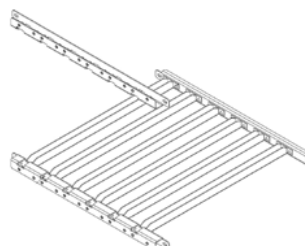


ICS PART #

RFX0039

## 19" SHELF ASSEMBLY FOR 1 - 6 UNITS SHALLOW DEPTH

- Shallow depth shelf assembly for Huawei BTS3900 RFU's
- Suitable for RFK0120
- Fabricated from galvanised steel



ICS PART #

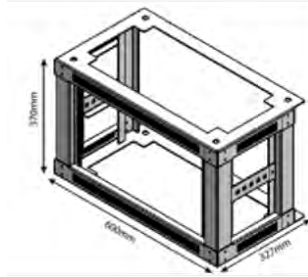
RFX0039A



# Racks

## ICS MER 6ESU RACK

- 19" SU ANSI Rack
- Dimensions (mm): 600 W x 327 D x 370 H
- Fabricated from galvanised steel

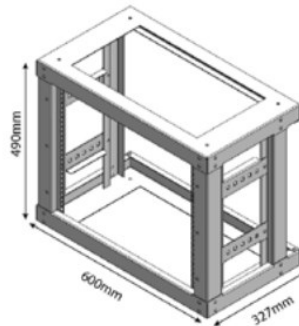


ICS PART #

RFX0120

## ICS MER 8ESU RACK

- 19" SU ANSI Rack
- Dimensions (mm): 600 W x 327 D x 490 H
- Fabricated from galvanised steel

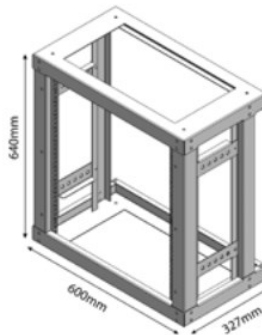


ICS PART #

RFX0090

## ICS MER 10ESU RACK

- 19" SU ANSI Rack
- Dimensions (mm): 600 W x 327 D x 640 H
- Fabricated from galvanised steel



ICS PART #

RFX0082

## RRU SECURITY ENCLOSURE

- Dimensions (mm): 700 W x 622 D x 1000 H
- Used to store three RRU's



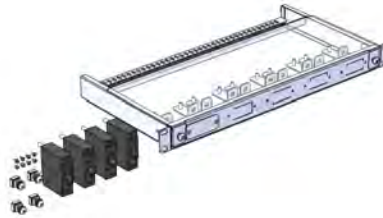
ICS PART #

RFX0138

# Racks

## BATTERY CIRCUIT BREAKER TRAY KIT

- Includes x4 100A Breakers



ICS PART #

DBK0053

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## RACK RAIL 350MM LONG

- Set of 4 Rails



ICS PART #

RFX0268

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## ICS ETSI RACK 600W X 600D APO GREY



ICS PART #

RFX0024

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## FAN PLATE 2 X FANS 19" RACK MOUNTABLE O-TYPE



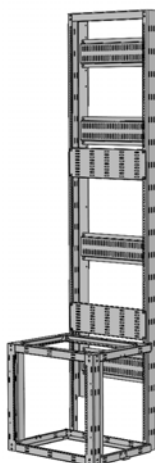
ICS PART #

EFM0017

# Racks

## ICS MER 47SU

- 19" Rack
- 555m Wide
- 10 ESU

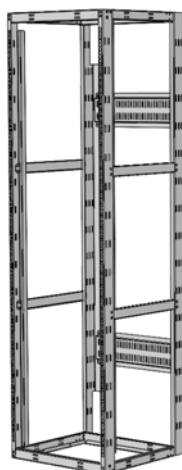


ICS PART #

RFX0253

## ICS MER 37SU

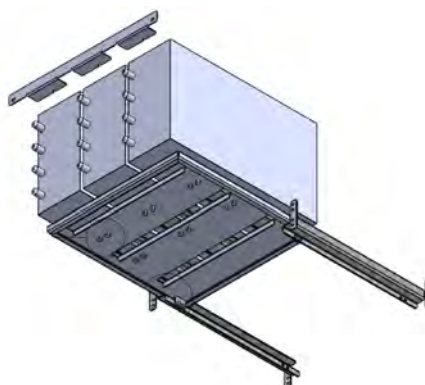
- 19" Rack
- 495mm Wide



ICS PART #

RFX0252

## CABINET SLIDING SHELF KIT SUIT HUAWEI 2300 RRU3256



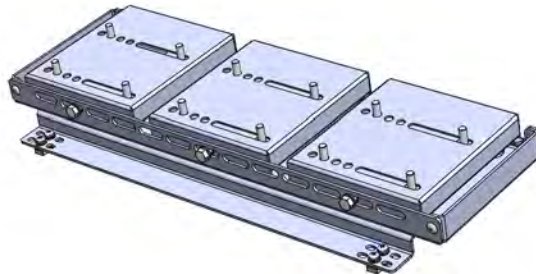
ICS PART #

LDX0026

# Racks

## ICS RRU SHORT MOUNTING BRACKET KIT

- Includes x3 Nokia RRU Brackets



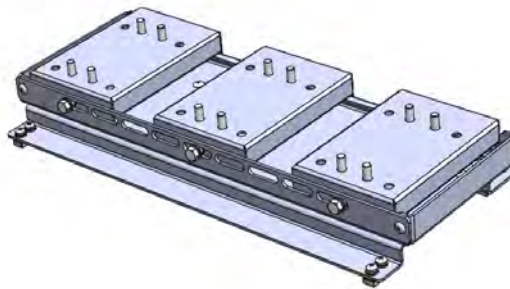
ICS PART #

RFK0019-3N

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## ICS RRU SHORT MOUNTING BRACKETS KIT

- Suitable for Zonecool
- Includes x3 Ericsson RRU Brackets



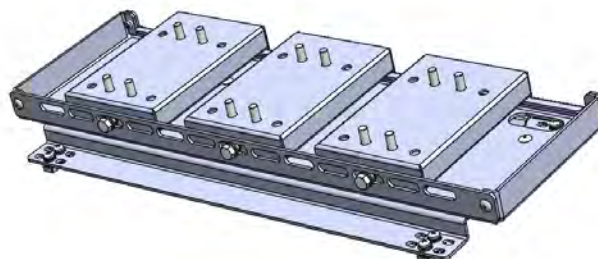
ICS PART #

RFK0019-3Ezc

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## ICS RRU SHORT MOUNTING BRACKET KIT

- Includes x3 Ericsson RRU Brackets



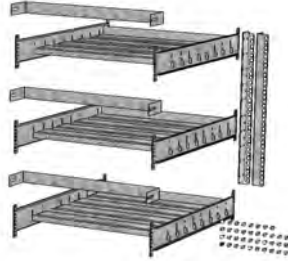
ICS PART #

RFK0019-3E

# Racks

## ICS 210AH BATTERY SHELF KIT

- Includes x3 RFX0215 Shelves
- Includes x2 CP0004-0500



ICS PART #

RFK0020

## ICS RRU SHORT MOUNTING BRACKET KIT

- Includes x6 Ericsson RRU Brackets

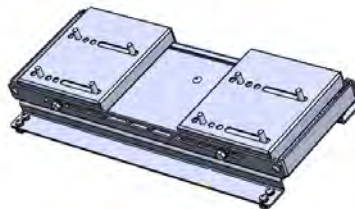


ICS PART #

RK0019-6E

## ICS RRU SHORT MOUNTING BRACKETS KIT

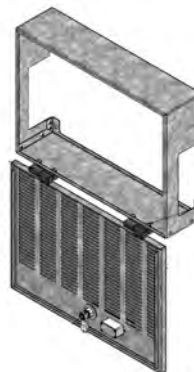
- Suitable for Zoncool
- Includes x3 Nokia RRU Brackets



ICS PART #

RFK0019-3NZC

## RACK MOUNTABLE SECURITY COVER 8RU



ICS PART #

RFX0267



# Racks

ICS HEAVY DUTY PLINTH RBS3106 GREY  
EXCLUDING EARTH BAR



ICS PART #

RFX0124

---

## GPS FILTER / DIN RAIL BRACKET KIT

- Black Ripple
- Suit ICS 45RU Post Rack
- PSA# 187/00047



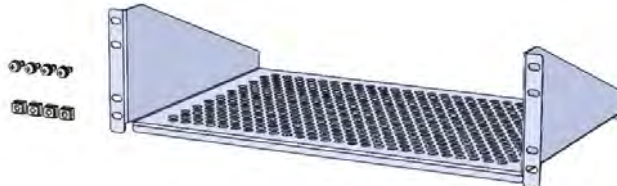
ICS PART #

RFX0127

---

## CANTILEVER SHELF

- 3RUx300mm Deep 19DX53x1
- Satin Black Ripple
- PSA# 187/01670



ICS PART #

RFX0131

---

## CABLE SUPPORT PANEL

- 1RUx60mm DC53x1
- PSA# 187/01671



ICS PART #

RFX0132

# Racks

## GPS POST BRACKET SURF MIST

- PSA # 187/01673

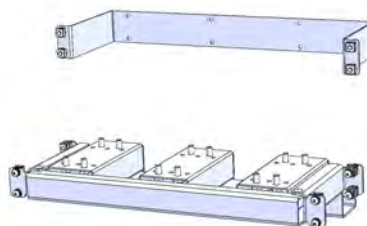


ICS PART #

RFX0134

## ICS RRU MOUNT BRACKET KIT

- Suit Post Rack
- Satin Black Ripple

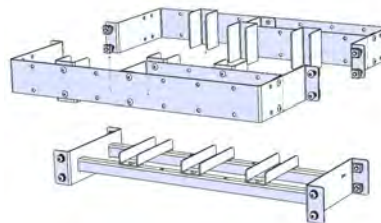


ICS PART #

RFX0223

## ICS 4 WAY FILTER MOUNT BRACKET

- Suit Post Rack
- Satin Black Ripple

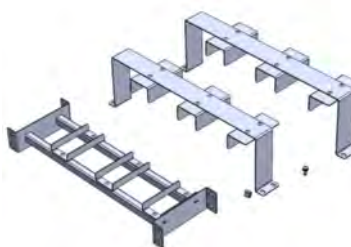


ICS PART #

RFX0224

## ICS 3 WAY FILTER MOUNT BRACKET

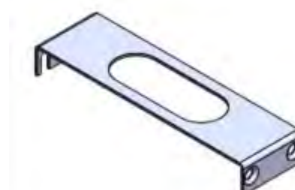
- Suit Post Rack
- Satin Black Ripple
- PSA # 777/00604



ICS PART #

RFX0125

## MOUNTING BRACKET APO GREY RIPPLE PAIR



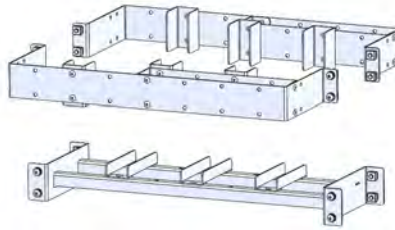
ICS PART #

LDX0152

# Racks

## ICS E14V00P1600 FILTER BRACKET

- Suit ICS Post Rack
- Satin Black Ripple

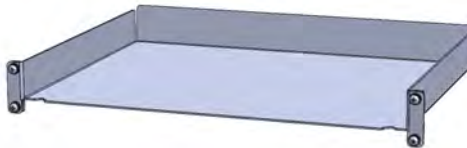


ICS PART #

RFX0244SBR

## AIR BLANKING PLATE ALUMINIUM

- 19" Plain DC54x1
- PSA # 187/01669

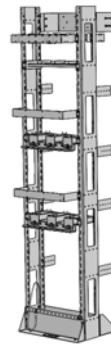


ICS PART #

RFX0130

## ICS 45RU POST RACK

- Includes RRU & 4W Filter Bracket
- Satin Black Ripple

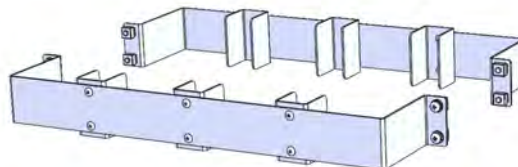


ICS PART #

RFX0229SBR

## POST RACK VERTICAL RACK MOUNT GUIDE

- Suit 4 x E14V00P1600 Kit
- Satin Black Ripple



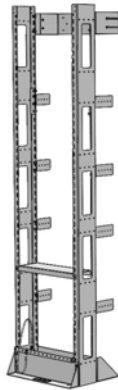
ICS PART #

RFX0248SBR

# Racks

## ICS 45RU POST RACK

- Black Satin Ripple
- PSA # 777/43278

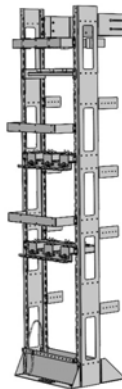


ICS PART #

RFX0085SBR

## ICS 45RU POST RACK

- Includes Filter Bracket E14V00O1600
- Satin Black Ripple

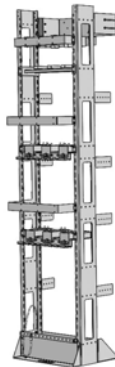


ICS PART #

RFX0242SBR

## ICS 45RU POST RACK

- Includes Filter Bracket Suit BSF0020
- Satin Black Ripple

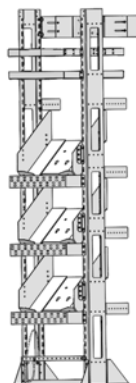


ICS PART #

RFX0241SBR

## ICS 45RU POST RACK LOW BASE

- 3x4480RRU Shelf & 6 Way Filter Shelf
- Satin Black Ripple



ICS PART #

RFX0264SBR

# Combiner Brackets

## HANGER COMBINER COM2 BRACKET FOR CABLE LADDER

- 2 x piece bracket supports 1 x combiner hung from cable ladder: COM2- E11F01P56, Commscope, DTPX  
700/850/900 DC BYP



ICS PART #

LDX0006

## HANGER COMBINER COM1 (7-96/18-26) BRACKET FOR CABLE LADDER

- Supports 1 x combiner hung from cable ladder: COM1- E15V90P44- SINGLE, Commscope, Lowband 380-960 + Highband 1710-2700 combiner



ICS PART #

LDX0007

## HANGER COMBINER COM3 (18-21) BRACKET FOR CABLE LADDER

- 2 x Piece bracket supports 1 x combiner hung from cable ladder: COM3 – E15V90P43, Commscope, DQPX 1.8/2.1/2.3/2.6 DC BYP



ICS PART #

LDX0008

## HANGER COMBINER COM1 BRACKET (V) TO SUIT KAEUS DBC0055F1V25-2

- Supports 1 x combiner hung from cable ladder
- The DBC0055F1V x Dual Band Combiner combines the 698-960 MHz and 1710-2700 MHz frequency bands



ICS PART #

LDX0010



# Combiner Brackets

## HANGER COMBINER TRI1 BRACKET SET (V) TO SUIT KAEIUS TBC0076F5V23-2

- 2 x Piece bracket supports 1 x combiner hung from cable ladder. The TBC0076 triplexer combines 900, 1800 and 2100 MHz signals onto a single output



ICS PART #

LDX0011

## HANGER COMBINER COM4 BRACKET SUITS KAEIUS DBC002/F3V23-2

- 3 x Piece bracket to support 1 x dual band combiner hung from cable ladder
- The Kaelus DBC0021 combiner provides diplexing of 1800 and 100MHz signals wherever both signals are required on a single output



ICS PART #

LDX0012

## HANGER COMBINER TO SUIT KAEIUS DBC0038F3V3-1 UMTS2100

- 2 x piece galvanised steel hanger brackets (x 2)
- Suitable for Kaelus DBC0038F3V3-1 combiner unit



ICS PART #

LDX0015

## 900MM COMMSCOPE (SBC) (E15Z55P02) HANGER BRACKET

- 2 x piece galvanised steel bracket supports
- Suitable for 900 Commscope SBC (E15Z55P02) LLC900MHz TYPE A



ICS PART #

LDX0016

## EARTH BAR VT-TYPE TINNED COPPER 500 X 50 X 10MM THICK



PHOTO NOT  
CURRENTLY AVAILABLE

ICS PART #

ENX0047

# Electrical & Miscellaneous Items

## EARTH BAR TN-TYPE (BARE COPPER)

- Bare copper 2 x 24 threaded holes and
- 500mm x 75mm



bolts

ICS PART #

ENX0066

## EARTH BAR T-KIT

- 1 x TN-type Earth Bar
- 2 x Stand-off brackets
- 4 x Isolators



ICS PART #

ENK0020

## EARTH BAR TN TYPE

- 1 x TN-type Earth Bar
- 12 x threaded holes and bolts



ICS PART #

ENX0008

## SMOKE ALARM PE 12/24V 4 WIRE

- 9 VOLT ULTRALIFE BATTERY



ICS PART #

EFXSMODETPE

ICS PART #

EFXSMODETBATT

## GLOBE 50V PACK OF 10

- Standard bayonette-cap globe
- Clear glass bulb
- Suitable for Distribution Boards TN2 and T3.1
- Suitable for Weather Proof Light



QTY OF 10

ICS PART #

EFKGLBPCK

ICS PART #

EFXGLOBE50V

CAN BE PURCHASED SEPARATELY

# Electrical & Miscellaneous Items

## TEMP & RH SENSOR (4-20MA)

- Temperature Ranges (°C) 0~50/-20~80/-40~60

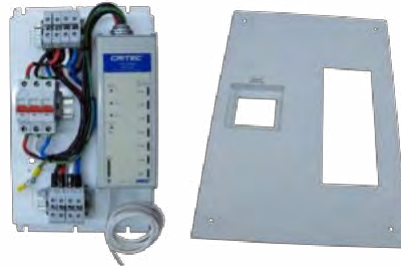


ICS PART #

EFX0063

## TDX UPGRADE KIT

- Upgrade kit to replace the SRF in distribution boards
- Includes new cover plate and rivets
- Uses same mounting blocks that secured SRF



ICS PART #

ENX0031

## TDX BOXED WITH MAIN BREAKER



ICS PART #

ENX0032

## SURGE PROTECTOR TDX100M

- Transient voltage surge suppressor. TDX100M 277/480TT.
- Nominal voltage: 277/480 (3ph)
- Protection: 100kA 8/20  $\mu$ s
- Replacement model for: Critec model: TDX100 277/480



ICS PART #

ENX0028

## SURGE MODULE TDX100M

- TDX100M Module TDS150M277
- 45mm X 50mm X 18mm (approx.)
- Replacement module for:  
Critec model: TDX100M 277/480TT



ICS PART #

ENX0033

# Electrical & Miscellaneous Items

## EPP GEN INLET 5 PIN

- 5-pin / 3-phase / Appliance inlet
- Weatherproof, IP66 rating
- 50A x 500V
- Suitable for all shelters



ICS PART #

EFX56550

## EXTERNAL SPD ICS TYPE

- 40kA 48V DC Telstra 5G
- Available in Paperbark, Pale Eucalypt, Surf Mist



ICS PART #

ENM0008

## INTERNAL SPD ICS TYPE



ICS PART #

ENM0009

## INTERNAL SPD AUGMENTATION

- 40kA 48V DC Telstra 5G
- Polycarbonate Enclosure

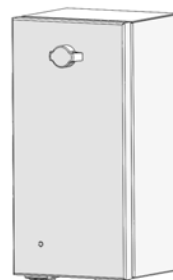


ICS PART #

ENM0013

## EXTERNAL SPD AUGMENTATION

- Available in Paperbark & Pale Eucalypt



ICS PART #

ENM0014

# Electrical & Miscellaneous Items

## TEMPERATURE TRANSMITTER & EXTERNAL PROBE

- 4-20MA
- Range-10~60 °C
- Option to wall mount, or mount inside a fan box or module



ICS PART #

EFX0068

## 24V-DC TO DC CONVERTER

### 25W 48V-DC TO 24V-DC

- DC Converter 25W 48V-DC to 24V-DC x 1 AMP
- Typically used to operate PLC and Smoke Detector
- DIN rail mounting
- Measures 83 x 60 x 50mm



ICS PART #

EFDCCON-025W

## ISOLATION TRANSFORMER

- 3P-50KVA
- Housed in IP56 enclosure
- 415 Volt AC, Star 69A per phase



ICS PART #

ENX0039

## UNIVERSAL L BRACKET FOR ELTEK FLAT PACK 2

- 2 x piece galvanised steel brackets
- Suitable for Eltek Flatpack 2 – Universal L Bracket



ICS PART #

LDX0017

## CABLE KIT

- Suits SCM3014



ICS PART #

CAK0006

# Doors & Associated Equipment

## HANDLE DOOR LEVER (PAIR)

- Suitable for all Shelters
- Sold in pairs only



ICS PART #

**DRLVRHDLSC**

## LOCK DOOR 3572 SERIES

- Suitable for most Shelters
- Does not include KEY barrel



ICS PART #

**DRLOCK3572**

## PARROT BEAK DOOR HOLDER

- Diecast metal construction
- Self latching
- Holds door securely open

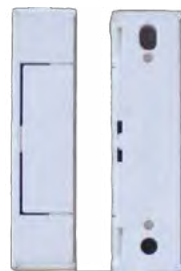


ICS PART #

**DRPARROTSC**

## REED SWITCHES

- Comes with Change-over contacts
- Activates alarm upon door open
- Mounting plate included



ICS PART #

**EFM0002**

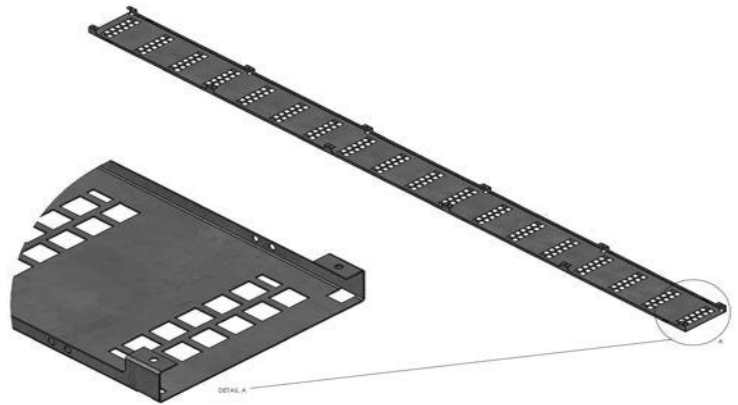


# Cable Ladders

## CABLE TRAY LENMIC

- 5 x various lengths required of wall mounted cable tray to run from BTS to DC equip as per diagram.  
1 x each of the 5 parts are required for typical eJV shelter configurations.
- Various sizes available:

ICS PART NO: LDX1010 – 100 x 390mm  
ICS PART NO: LDX2010 – 200 x 450mm  
ICS PART NO: LDX2012 – 200 x 735mm  
ICS PART NO: LDX2024 – 200 x 1400mm (2 x req)  
ICS PART NO: LDX2016 – 200 x 1500mm  
ICS PART NO: LDX2018 – 200 x 1560mm  
ICS PART NO: LDX2020 – 200 x 1600mm  
ICS PART NO: LDX2022 – 200 x 1885mm



## BTS 3900L TOP L BRACKET

- Attaches to the top rear of BTS3900L unit to secure to wall



ICS PART #

HAX0153

## ICS SPLIT LENGTH CABLE LADDER

- Cable ladder is supplied in two pieces and is fixed to ceiling with rungs facing down. Designed in 2 x sections for full pre-assembly of combiners, tails, etc, on ladder prior to installation. Heavy Duty Brackets to support additional weight of eJV equipment.

Kit includes:

- 2 x Cable ladder - half length
- 2 x Wall bracket - full width
- 2 x Ceiling bracket - heavy duty
- 4 x Hex head fittings - Type 17
- 4 x Self drilling hex heads
- 4 x Fixing bolts

- Various sizes available:

ICS PART NO: LDX60024SLK – 2.4 mtr shelter  
ICS PART NO: LDX60030SLK – 3.0 mtr shelter  
ICS PART NO: LDX60036SLK – 3.6 mtr shelter



# Gland Plates

## ICEW-2 GLANDPLATE 600 X 400

- Gland Plate. Includes glands & penetrations to support 48 x Andrew LDF450 (Cable  $\varnothing 15-16\text{mm}$  outside diameter{OD}) pre-terminated tails. Markings for location of 6 x HFDC and 2 x Other cables. Gland plate to be cut on site for HFDC & Other cables. Glands not included for HFDC or other cables. \*If cables being used are not OD15-16mm then different INSERTS will be required.



ICS PART #

HMM0005

## SPLIT CABLE GLAND KIT X 1 KEL – 16/8 WITH 6 X $\varnothing 15-16\text{MM}$ INSERTS & PLUGS

- Additional cable glands are available as spare parts



ICS PART #

HMK0008

## SPLIT CABLE GLAND KIT X 6 KEL – 16/8 WITH INSERTS & PLUGS

- Additional cable glands are available as spare parts



ICS PART #

HMM0006

## ICEW-3 GLANDPLATE 600 X 400 KIT

- Gland Plate. Includes 4 x 8-way split glands & penetrations to support 32 x  $\varnothing 13-14\text{mm}$  pre-terminated tails and 2 x Blanking plates. Markings for location of 6 x HFDC and 2 x Other cables. Gland plate to be drilled on site for HFDC & Other cables, glands not included. Additional split cable glands are available as spare parts.



ICS PART #

HMM0008

## SPLIT CABLE GLAND KIT X 1 KEL – 16/8 WITH 6 X $\varnothing 13-14\text{MM}$ INSERTS & 2 X PLUGS

- Complete with mounting bracket and screws



ICS PART #

HMK0013

# Cabinets

## ICS 5G MINI CELL ENCLOSURE

- Heritage Green



ICS PART #

SCM3007

## 5G POLE CABINET ASSY MAXI

- Pale Eucalypt

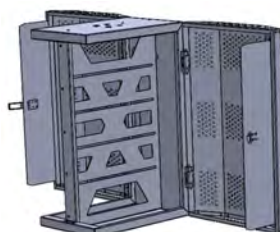


ICS PART #

SCM3007-MAXI

## ICS 5G SMALL CELL

- Koala APO Grey



ICS PART #

SCM3008

## ICS 5G PLINTH MOUNTED MINI-CELL ENCLOSURE - SURF MIST



ICS PART #

SCM3014

# Cabinets

## OUTDOOR CABINET ALUMINIUM - TWIN SKIN

- Ext: 680W x 620D x 1300H
- Int: 20RU x 48vDC Fan Cooled
- APO Grey



ICS PART #

SCM1002A

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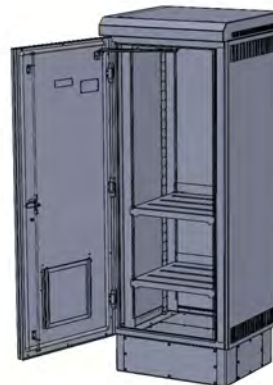
## OUTDOOR CABINET 32RU ALUMINIUM FAN COOLED

- 1810H x 680W x 620D
- Powder-coated in APO grey, satin finish
- 1 Door Aluminium
- Aluminium construction
- Twins-skin solar-shields on walls, door and roof
- External measurements (mm) 1,820-high x 620-deep x 680-wide
- 200mm high mounting plinth, hot dipped galvanized steel construction with access for cable management
- Front and rear 32RU rack rails, adjustable in depth.
- 2x 450mm deep steel shelves
- Powder-coated in APO grey, satin finish
- Designed to meet IP45 ingress protection.



ICS PART #

SCM1004C



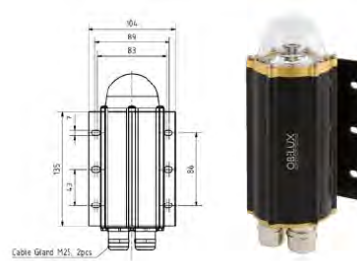
# AIRCRAFT OBSTACLE WARNING LIGHTS



# Aircraft Obstacle Warning Lights

## AOWL LOW INTENS LAMP 48V-DC LED

- ☐ 100 Candela luminous output
- ☐ Anodised aluminium body with glass cover
- ☐ 210mm high x 104mm diameter
- ☐ 1.2kg in weight
- ☐ Complete with terminal box and mounting bracket
- ☐ Wide 20 to 55V-DC input voltage



ICS PART #

EFXACWL1

## AOWL MEDIUM INTENS LAMP 48V-DC LED

- ☐ 2000 Candela luminous output
- ☐ Anodised aluminium body with glass cover
- ☐ 284mm high x 154mm diameter
- ☐ 3.5kg in weight
- ☐ Complete with terminal box and mounting bracket
- ☐ Operating voltage range 47 > 58V-DC
- ☐ Constant current < 0.6amps @ 48V-DV



ICS PART #

EFXACWL2

## AOWL CONTROL UNIT 48V-DC LED

- ☐ 200mm H x 300mm W x 132mm D
- ☐ A4 C Outputs, independent current monitoring



ICS PART #

EFXACWL3



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