FUJITSU

AUSTRALIA'S FAVOURITE AIR™

AIR CONDITIONING RANGE

WALL MOUNTED – DESIGNER RANGE

WALL MOUNTED – COOLING ONLY

WALL MOUNTED – REVERSE CYCLE

CASSETTE

CEILING & FLOOR CONSOLE

MULTI SYSTEMS

Fujitsu leads the way

Fujitsu leads the way in design and technology with its most exciting range of innovative air conditioners.

With a choice of individual and advanced systems in a variety of configurations, Fujitsu can provide the perfect solution for any environment.

Whether it's heating or cooling, come home to Fujitsu comfort.

Features

Up/Down Swing Louvre
The up/down louvre automatically swings up and down.

Right/Left Swing Louvre
The right/left louvre automatically swings in either direction.

Double Swing Automatic
Complex swing action of the louvres enables them to swing automatically in both horizontal and vertical directions.

Automatic Louvre
The position of the louvres is set automatically to match the operating mode. It is also possible to adjust the louvres using the remote control.

Auto Shut Louvre
The auto shut louvres close or open automatically when the unit stops or starts.

Automatic Air Flow Adjustment
The micro-processor automatically adjusts the air flow to follow changes in room temperature.

Auto Restart
Should there be a temporary loss of power, the unit will automatically restart itself in the same operating mode, once the power is restored.

Auto-Changeover
The unit automatically switches between operating modes based on the set point temperature and room temperature.

Blue Fin Heat Exchanger
Corrosion-resistance of the heat exchanger in coastal areas has been improved by blue fin treatment of the outdoor unit heat exchanger.

All DC
With All DC, electricity loss is decreased and power consumption reduced.

V-PAM
V-Pam Inverter technology increases the maximum output of the compressor significantly and enables high power and high efficiency. For details, see page 5.

I-PAM
I-Pam inverter technology enables high output and high efficiency performance. For details, see page 5.

Sleep Timer
The micro-processor gradually changes the room temperature, allowing you to sleep comfortably at night.

Program Timer
This timer allows selection of one of four options. ON, OFF, ON –> OFF, or OFF –> ON.

ON-OFF Timer
ON-OFF timer can be set to operate once every 24 hours.

Weekly Timer
Different on-off times can be set for up to 7 days.

Weekly + Setback Timer
Weekly + Setback timer can set temperature for two time spans and for each day of the week.

Washable Panel

Connectable Distributing Duct
Conditioned air can be distributed to adjacent areas by means of a distribution duct.

Connectable Fresh Air Duct
Allows introduction of fresh air to occupied space.

Fresh Air Intake
Fresh air can be taken in by a fan which can be connected using UTD-ECS5A* (optional parts).

Long-life Ion Deodorisation Filter
For details, see page 11.

Apple-catechin Filter
For details, see page 11.

Air Clean Filter
For details, see page 12.

Powerful Mode
Powerful mode will operate the indoor unit fan and outdoor unit compressor at maximum operation to quickly make the room conditioned and comfortable.

Human Sensor
Human sensor detects movement of people within the conditioned room.

Product Design Award
For details, see page 6

Good Design Award
For details, see page 6

Coil Dry
After the power is turned off, the dry operation starts inside the air conditioner. This prevents the growth of mold and bacteria inside the air conditioner.

Cooling

Heating

"If you're looking for an air conditioner that you can trust to keep you comfortable year round, my advice is to look no further than a Fujitsu.

They are efficient, effective, and beautifully designed, I should know, I bought one myself.

So for an air conditioner you can trust, go with the name you know, Fujitsu, it's Australia's favourite air."

Mark Taylor

CONTENTS

ABOUT AIR CONDITIONING

What is an air conditioner?

An air conditioner is designed to provide comfort within your home regardless of the weather or season. Air conditioners use the principles of heat transfer where they absorb and transfer heat to keep you comfortable all year round. In summer when running on cooling mode, heat is removed from the indoor environment and transferred to the outdoor unit where it is expelled outside. This is why you will feel hot air coming from the outdoor unit in summer. This leaves your room cooler and more comfortable on those hot summer days.

Cool vs reverse

Fujitsu air conditioners are great for keeping you cool in summer, but did you know they are also one of the most cost effective ways of warming your home in winter? Unlike other traditional heaters, they can warm your home faster and more efficiently. In winter when running on heating mode the process is "reversed". Reverse cycle air conditioners absorb heat from the outside, and transfers that heat to the indoor environment keeping you warm in winter. Fujitsu air conditioners are designed to cool or heat your home even in the most extreme conditions. This makes a Fujitsu air conditioner the perfect comfort solution, all year around.

Split System vs Multi System

Split System air conditioners are designed to conveniently and efficiently cool or heat a single room. For situations where more than a single room needs cooling or heating, Fujitsu has a range of Multi Systems designed to air condition 2, 3 or 4 areas in your home. They allow for individual control of each indoor unit, with the ease and simplicity of having only one outdoor unit running them all.

What to consider when purchasing an air conditioner

Buying an air conditioner can be confusing and buying the biggest unit is not always the best idea. If the unit is too big for the room, it will use extra energy and will turn itself on and off too often. On the other hand, if the unit is too small, it will not be able to handle the amount of work it needs to do. The following are a few things to consider when thinking about your next Fujitsu air conditioner:

- Do I need cooling only or heating as well?
- What is the size of the area that I want to air condition?
- Are my ceilings and walls insulated?
- What direction do my windows face?

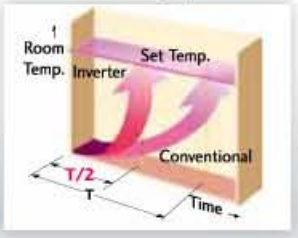
To find the most economical Fujitsu Air Conditioner for your room visit the Econamatch page of the Fujitsu General website, or talk your local Fujitsu General stockist for more options.

INVERTER TECHNOLOGY

What is an inverter?

Through new, advanced technology, inverter air conditioners are more economical to operate and quieter to run than conventional units. They can handle greater extremes in temperature, are smoother and more stable in operation and reach the desired temperature more quickly than conventional air conditioners.

Room warming speed

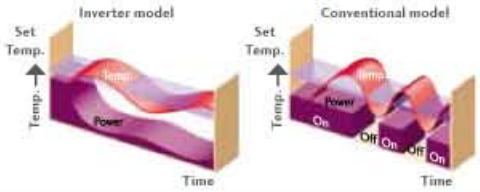


Maximum Power

Inverter control

The Inverter component allows the outdoor unit to vary its speed and output to match the required capacity of the indoor unit. Thus, the Inverter model can achieve 30% more operating efficiency than conventional models and therefore, is much cheaper to run.

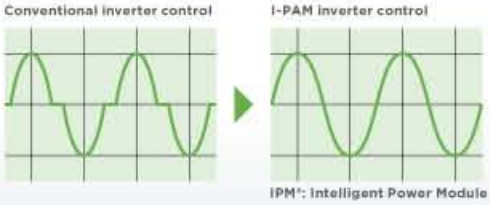
Power and speed



Optimised inverter control

i-PAM (IPM*+PAM) Inverter Control

i-PAM inverter control is a technology which reduces loss by adjusting the current waveform to a better sine waveform. This promotes the effective use of the input power supply to attain high performance.



IPM*: Intelligent Power Module

V-PAM (Vector+i-PAM) Inverter Control

V-PAM inverter control reduces the effects of magnetic flux and increases the maximum speed and efficiency of the compressor by vector control technology. With this technology, further miniaturisation, higher efficiency, and better performance are attained.

In addition, the voltage is raised at the start of operation and fast comfort is attainable by more powerful operation.

This technology enables miniaturisation and high performance of the compressor.

It becomes more powerful with the newly developed high efficient compressor motor control.

High energy efficiency

The high efficiency DC Inverter Multi System offers energy saving operation and 50% higher efficiency than a constant-speed multi system. Improved inverter cooling ratio prevents a drop in capacity when operating under load conditions.

Energy Saving over 1 year

Comfort & stability

The air conditioner's output is stabilised at the optimum setting within the range from maximum to minimum to match the load, which is affected by factors such as the room temperature and the number of people present.

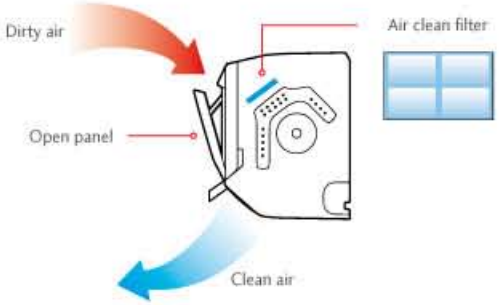
INVERTER WALL MOUNTED

ASTG09LV	ASTG12LV	ASTG18LV	ASTG22LV
Hi-EER: 4.31 (W/W)	Hi-EER: 3.80 (W/W)	Hi-EER: 3.27 (W/W)	Hi-EER: 3.23 (W/W)
Hi-COP: 4.66 (W/W)	Hi-COP: 4.32 (W/W)	Hi-COP: 4.03 (W/W)	Hi-COP: 3.55 (W/W)
C 2.50kW/8,500 BTU/h	C 3.50kW/11,900 BTU/h	C 5.00kW/17,100 BTU/h	C 6.30kW/21,500 BTU/h
H 3.40kW/11,600 BTU/h	H 4.80kW/16,400 BTU/h	H 6.00kW/20,400 BTU/h	H 7.20kW/23,900 BTU/h

Air conditioner filter features

The ASTG standard air clean filter uses static electricity to clean fine particles and dust in the air such as tobacco smoke and plant pollen that are too small to see.

The filter contains catechin which is highly effective against various bacteria by suppressing the growth of bacteria absorbed by the filter.

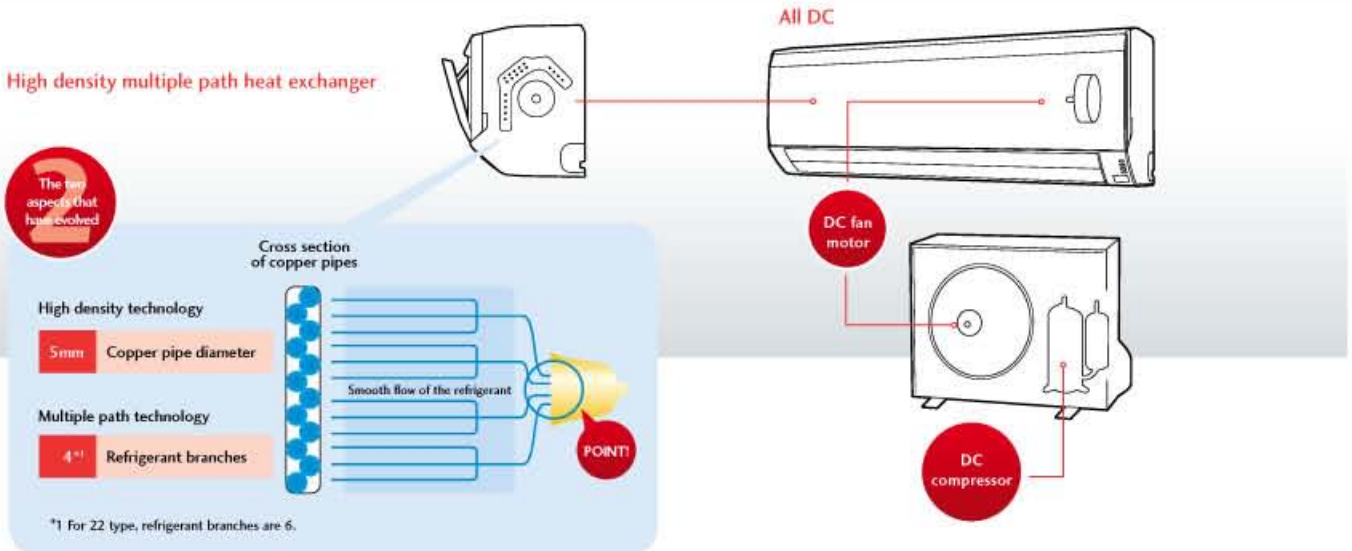


> Clean automatic open panel

> Air clean (anti-bacteria) filter provides clean airflow for complete comfort

HIGH EFFICIENCY TECHNOLOGY

Significantly higher efficiency is realised by using DC twin rotary compressor, DC Inverter control and DC fan motor technologies.



CONTROL OPTIONS

> Four Standard Timers (On/Off/Program/Sleep Timers)

> Easy Operation

> Easy to change transmission code

Optional Remotes
(other accessories required)

Wired remote controller

Simple remote controller

Wired and wireless remote controllers are acceptable.

*Optional communication kit is necessary for the installation

TYPE	MODEL	UNITS	INVERTER			
Model No.	Indoor Unit		ASTG09LVCA	ASTG12LVCB	ASTG18LVCB	ASTG22LVCB
	Outdoor Unit		AOTG09LVC	AOTG12LVCB	AOTG18LVCB	AOTG22LVCB
Reverse Cycle System			Yes	Yes	Yes	Yes
Cooling Capacity		Watts	2,500	3,500	5,000	6,300
		BTU/h	8,500	11,900	17,100	21,500
Range		Watts	500-3,300	900-4,000	900-5,800	900-7,300
		BTU/h	1,700-11,300	3,100-13,600	3,100-19,800	3,100-24,900
Heating Capacity		Watts	3,400	4,800	6,000	7,200
		BTU/h	11,600	16,400	20,400	23,900
Range		Watts	500-4,000	900-5,600	1,050-8,100	1,050-8,700
		BTU/h	1,700-13,600	3,100-19,100	3,600-27,600	3,600-29,700
Power Supply		Volts	240	240	240	240
Phase-Frequency		Ph- Hz	1-50	1-50	1-50	1-50
Power Supply Attachment			Outdoor	Outdoor	Outdoor	Outdoor
Running Current	Cooling	Amps	2.8	4.2	6.5	8.2
	Range		Max 6.0	Max 6.5	Max 9.5	Max 11.5
	Heating		3.5	5	6.3	8.5
	Range		Max 7.5	Max 9.0	Max 13.5	Max 17.5
Input	Cooling	Watts	580	920	1,530	1,950
	Range		250-1,240	250-1,420	180-2,030	180-2,750
	Heating		730	1,110	1,490	2,030
	Range		250-1,560	250-2,000	170-3,190	170-4,180
Moisture Removal		l/hr	1.3	1.8	2.6	2.7
E.E.R.	Cooling		4.31	3.8	3.27	3.23
C.O.P.	Heating		4.66	4.32	4.03	3.55
Star Rating	Cooling		4	3	2	2
	Heating		4.5	4	3.5	2.5
Fan Speeds			4	4	4	4
Air Circulation	High	l/s	219	225	267	267
Compressor Type			DC Rotary	DC Rotary	DC Rotary	DC Rotary
Dimensions and Weights	I.U. mm	Height	293	293	293	293
		Width	790	790	790	790
		Depth	225	225	225	225
	Net Weight	kg	9.5	9.5	9.5	10
	O.U. mm	Height	540	540	620	620
		Width	660	790	790	790
		Depth	290	290	290	290
	Net Weight	kg	26	35	40	42
I.U. Sound Pressure Level		dBA@1metre	41	42	46	48
O.U. Sound Pressure Level			47	48	52	55
O.U. Sound Power Level		dBA	64	66	69	72
Refrigerant	Type		R410A	R410A	R410A	R410A
Connection Pipe Sizes	Gas	mm	9.52	9.52	12.7	15.88
	Liquid		6.35	6.35	6.35	6.35
Pre Charged Length		Metre	15	15	15	15
Minimum Pipe Length			3	3	3	3
Maximum Pipe Length			20	20	20	20
Maximum Pipe Height			15	15	15	15
Pipe Connection Methods			Flare	Flare	Flare	Flare
Outdoor operating Temp.	Cooling	Degrees C	10 to 46	10 to 46	10 to 46	10 to 46
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24

INVERTER WALL MOUNTED

ASTG24LF
Hi-EER: 3.33 (W/W)
Hi-COP: 3.54 (W/W)
C 6.8kW/23,200 BTU/h
H 8.00kW/27,300 BTU/h

ASTG30LF
Hi-EER: 3.31 (W/W)
Hi-COP: 3.41 (W/W)
C 8.00kW/27,300 BTU/h
H 9.00kW/30,700 BTU/h

ASTG34LF
Hi-EER: 3.29 (W/W)
Hi-COP: 3.30 (W/W)
C 9.2kW/31,400 BTU/h
H 10.00kW/34,100 BTU/h

ALL DC


DC fan motor


High efficiency layout
Large air flow and quiet operation by new air flow path.

A **DC fan motor**

B **DC Compressor**
More compact compared with conventional model

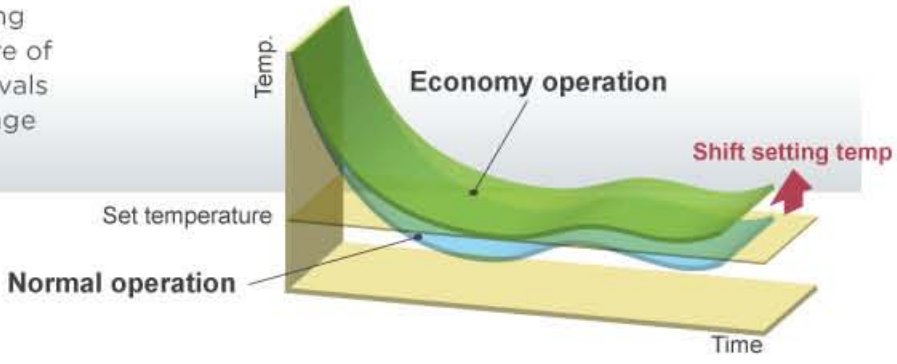
Front view


Back view

New 3-row heat exchange system (For ASTG24LF)

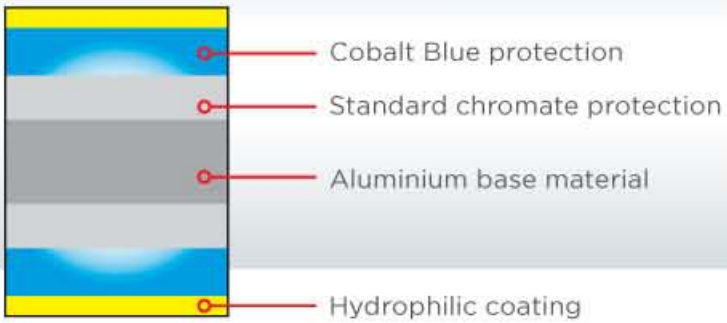
Economy operation

Economy operation is an energy saving setting that allows the set temperature of the indoor unit to change by 1°C intervals which limits the maximum energy usage of the air conditioner.



BLUE FIN HEAT EXCHANGER

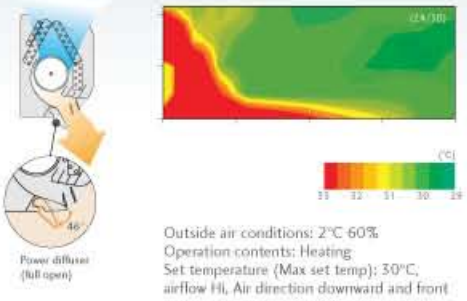
Fujitsu has made an air conditioner to suit almost all installation environments. As over 80% of Australia's population live in coastal areas, Fujitsu has improved the corrosion resistance of all its outdoor unit heat exchangers with the introduction of a blue fin coil treatment.



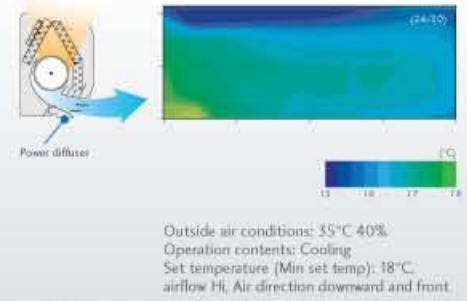
TYPE	MODEL	UNITS	INVERTER		
Model No.	Indoor Unit		ASTG24LFCB	ASTG30LFCB	ASTG34LFCB
	Outdoor Unit		AOTG24LFLB	AOTG30LFTB	AOTG34LFTB
Reverse Cycle System			Yes	Yes	Yes
Cooling Capacity		Watts	6,800	8,000	9,200
		BTU/h	23,200	27,300	31,400
Range		Watts	900-8,300	2,900-9,000	2,900-10,000
		BTU/h	3,100-28,300	9,900-30,700	9,900-34,100
Heating Capacity		Watts	8,000	9,000	10,000
		BTU/h	27,300	30,700	34,100
Range		Watts	900-10,600	2,200-11,000	2,700-11,200
		BTU/h	3,100-36,200	7,500-37,600	9,200-38,200
Power Supply		Volts	240	240	240
Phase-Frequency		Ph- Hz	1-50	1-50	1-50
Power Supply Attachment			Outdoor	Outdoor	Outdoor
Running Current	Cooling	Amps	8.6	10.2	11.8
	Range		Max 13.5	Max 17.0	Max 18.5
	Heating		9.5	11.1	12.8
	Range		Max 18.5	Max 19.0	Max 19.0
Input	Cooling	Watts	2,040	2,420	2,800
	Range		300-3,210	580-4,040	590-4,400
	Heating		2,260	2,640	3,030
	Range		280-4,400	500-4,520	600-4,520
Moisture Removal		l/hr	2.7	3.2	3.5
E.E.R.	Cooling		3.33	3.31	3.29
C.O.P.	Heating		3.54	3.41	3.30
Star Rating	Cooling		2	2	2
	Heating		2.5	2	2
Fan Speeds			4	4	4
Air Circulation	High	l/s	306	311	347
Compressor Type			DC Rotary	DC Rotary	DC Rotary
Dimensions and Weights	I.U. mm	Height	320	320	320
		Width	998	998	998
		Depth	238	238	238
	Net Weight	kg	14	14	14
	O.U. mm	Height	578	830	1,290
		Width	790	900	900
		Depth	315	330	330
	Net Weight	kg	43	61	86
I.U. Sound Pressure Level		dBA@1metre	47	49	52
O.U. Sound Pressure Level			53	53	53
O.U. Sound Power Level		dBA	71	69	67
Refrigerant	Type		R410A	R410A	R410A
Connection Pipe Sizes	Gas	mm	15.88	15.88	15.88
	Liquid		6.35	9.52	9.52
Pre Charged Length		Metre	15	20	20
Minimum Pipe Length			3	3	5
Maximum Pipe Length			30	50	50
Maximum Pipe Height			20	30	30
Pipe Connection Methods			Flare	Flare	Flare
Outdoor operating Temp.	Cooling	Degrees C	-10 to 46	-10 to 46	-5 to 46
	Heating		-15 to 24	-15 to 24	-15 to 24

POWER DIFFUSER

Introduction of a Power Diffuser



"Strong vertical air flow" provides powerful floor level heating



"Healthy horizontal air flow" does not blow cool air directly at the occupants in the room

Products in this brochure contain R410A refrigerant. Please refer to specifications before installation & servicing this product.

Only persons and/or companies qualified and experienced in the installation, service and repair of refrigerant products should be permitted to do so. The purchaser must ensure that the person and/or company who is to install, service or repair this air conditioner has qualifications and experience in refrigerant products.

Suitable access for warranty & service is required.

For future improvement, specifications, designs of product and availability are subject to change without notice. Please check with your dealer.

All Capacity and Energy Efficiency ratings are based on AS/NZS3823.2.

Cooling Indoor Temp: 27°C DB/19°C WB
Outdoor Temp: 35°C DB

Heating Indoor Temp: 20°C DB
Outdoor Temp: 7°C DB /6°C WB

Running current is at rated conditions (AS3823) and does not include compressor start-up or variations in power supply and load conditions.

N807

All products specified in this brochure comply with the Australian Communications Authority's (ACA) requirements for Electromagnetic Compatibility (EMC).

FULL PARTS & LABOUR WARRANTY 5 YEARS

FUJITSU COMFORT

AUSTRALIA'S FAVOURITE AIR™

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CANSTAR

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FUJITSU GENERAL (AUST.) PTY LIMITED

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www.fujitsugeneral.com.au

HEAD OFFICE

NSW	Eastern Creek Drive, Eastern Creek NSW 2766	TEL (02) 8822 2500	FAX (02) 8822 2501
VIC/TAS	Suite 1, Building 2, Omnico Business Centre, 270 Ferntree Gully Road, Notting Hill VIC 3168	TEL (03) 9543 5899	FAX (03) 9543 8299
QLD	1 Breakfast Creek Road, Newstead QLD 4006	TEL (07) 3257 2800	FAX (07) 3257 2184
SA/NT	128A Rose Terrace, Wayville SA 5034	TEL (08) 8172 1180	FAX (08) 8172 1190
WA	Suite 3, 5 Mumford Place, Balcatta WA 6021	TEL (08) 9240 5877	FAX (08) 9240 5866

E-mail: contact@fujitsugeneral.com.au – or call 1300 882 201

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