



AUSTRALIA'S FAVOURITE AIR™



## AIR CONDITIONING RANGE

Ducted

Cassette

Under Ceiling and Floor Console

Multi Systems

ERV's

# If it can be designed, we can air condition it.

All over Australia, Fujitsu air conditioning is being installed in some of the most innovative and unusual building applications. That's because our systems offer incredible design flexibility, smoother more efficient control and lower running costs.

So whether you need to air condition a few rooms or a few towers, Fujitsu has the solution. No wonder it's Australia's Favourite Air.

## 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 adjusts the airflow to follow changes in room temperature.



### Auto Restart

Should there be 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 heating and cooling modes based on the temperature setting and room temperature.



### Economy Mode

Limits the maximum operation current, and performs operation with the power consumption suppressed.



### 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.



### 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).



### Energy Saving Mode

This mode raises the set temperature slightly in the cooling mode and lowers the set temperature in the heating mode to economically control the operation of the unit.



### Filter sign

Indicates the filter cleaning period by lamp.



### Control Port

External inputs and outputs contained within the product allow on/off control, fresh air interlock connection and heater bank element connection. UTD-ECS5A\* (optional parts)



### V-PAM

V-Pam Inverter technology increases the maximum output of the compressor significantly and enables high power and high efficiency.



### I-PAM

I-Pam inverter technology enables high output and high efficiency performance.



### Apple-catechin Filter



### Long-life Ion Deodorisation Filter



### Washable Panel



### 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.



### Air Clean Filter



### Cooling



### Heating

“With over 100 different brands of air conditioners on the market, how do you know you’re choosing the right one?”

Well, my advice is to go with a name you can trust, which is why I bought a Fujitsu.

No other company can match their wide range, exceptional economy and superior efficiency. And with their famous 5 year parts and labour warranty, it’s no wonder Fujitsu is Australia’s Favourite Air.”



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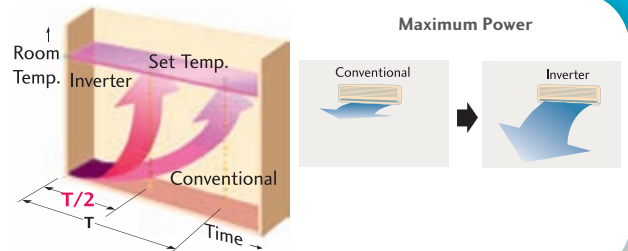


# Inverter Technology

## What's an Inverter?

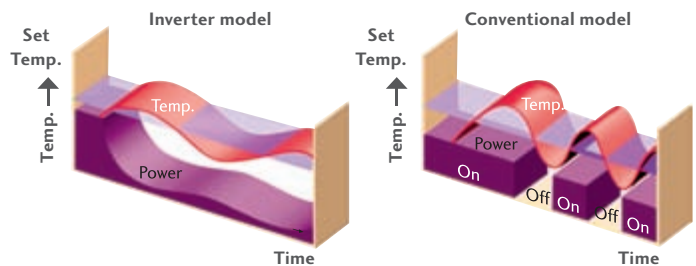
Through new, advanced technology, Inverter air conditioners are more economical to operate and quieter to run than conventional units. They can handle greater extremes in temperature, are smoother and more stable in operation and reach the desired temperature more quickly than conventional air conditioners.

### Room warming speed



## 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.



## 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.

Conventional inverter control

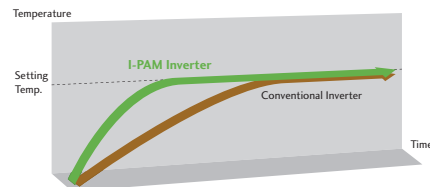


I-PAM inverter control



IPM\*: Intelligent Power Module

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



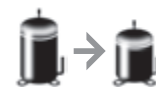
This technology enables miniaturisation and high performance of the compressor.



### 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.

More compact than conventional models



Vector I-PAM



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

## All DC Components



By utilising a DC Compressor and Fan Motor, electricity loss is decreased and power consumption is substantially reduced. In addition, by increasing the air flow on high speed, the heat exchanger efficiency has been improved which has reduced the overall annual power consumption.



Outdoor unit

DC Fan Motor

Inverter control base

DC Compressor

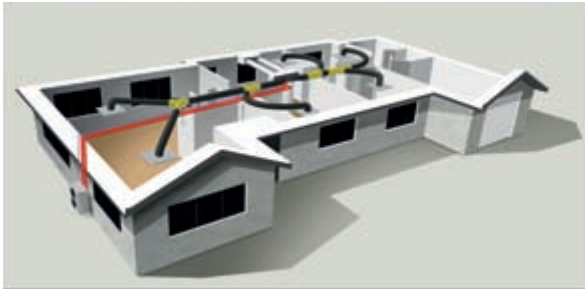
### High Efficiency DC Twin Rotary Compressor

A high performance, low noise, large capacity DC Twin Rotary Compressor is used for the large three phase ducted systems. The New DC Twin Rotary Compressor has a substantially increased refrigerant intake and compression efficiency which allows for an improvement in overall system energy efficiency.



# About Ducted Systems

## What is a ducted air conditioner?



Fujitsu ducted systems are able to deliver comfort to every room in your home by using a system of ductwork installed in your ceiling space. Also, by only requiring one outdoor unit, they take up minimal space outside of your home. Talk to a Fujitsu specialist today about a ducted system – your whole house air conditioning solution.

## 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.



## The ultimate in air conditioning

Ducted air conditioning is surely the ultimate in comfort. The Fujitsu ducted models offer quiet, efficient operation, are easy to maintain, and operate via a wall mounted LCD control that controls all functions of the system.

## Invisible comfort

Whatever shape the room, ducted units create uniform temperatures throughout. The unit is totally concealed, usually within a ceiling void. Cool or warm air is then ducted into each room through outlets positioned in the walls, floor or ceiling. Easily controlled, Fujitsu's ducted systems provide comfort throughout your house without leaving cool or hot spots.

## The ducted air conditioning system

- Perfect comfort throughout each room
- Visually appealing
- Concealed installation
- Reverse cycle heating and cooling
- Quiet operation
- Easy-to-use LCD controller.

# New ARTG High Static ducted features

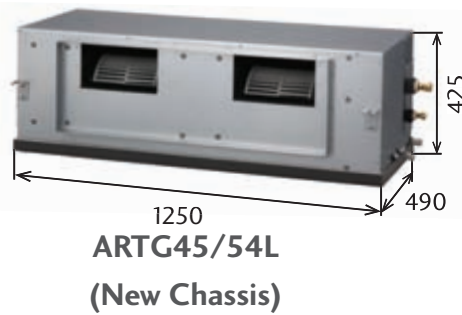
## Space saving

### Compact Size

High performance has been realised with a compact indoor/outdoor unit.

Due to the compact size of the indoor and outdoor unit, the installation space required has been reduced allowing for a wider selection of installation locations.

### INDOOR UNIT



### OUTDOOR UNIT



## Control options



Standard



Option

### Dual remote controllers (optional)

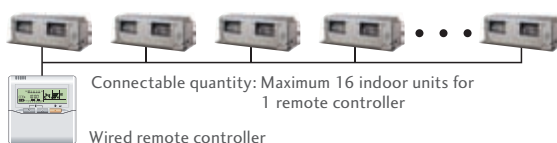
An additional remote controller can be added up to the maximum of two remote controllers. The timer functions can only be used on the control which was chosen as the master controller during installation.



### Group control

One remote controller can control up to 16 air conditioners. All of the air conditioners will be operated with the same settings.

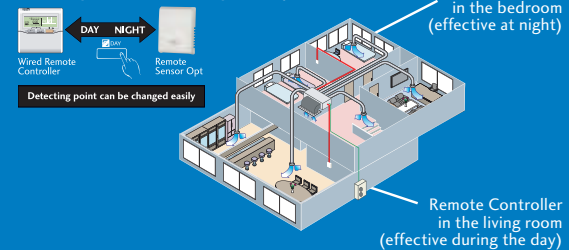
### Example of ducted system configuration



## Room temperature control

- Remote controller has temperature sensor built in.
- User can select between Remote Controller temperature sensor and Return Air Sensor on unit.
- Return Air Sensor on unit can be replaced with Wall Mounted Remote Sensor (optional part UTY-XSZX).

Detecting point can be changed easily



## Quiet operation

The Indoor Fan noise has been reduced due to the new designed structure of the indoor unit.

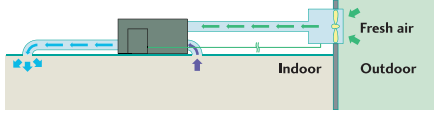
Previous model	New model
49dB(A)	45dB(A)

\*ARTG54L at 100pa, fan mode: Hi

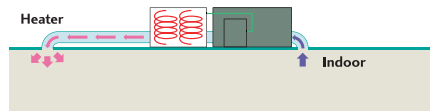
## External control

### Indoor functions

1. Fresh air output port. External fresh air fans can be connected to run in conjunction with the fan motor of the indoor unit.

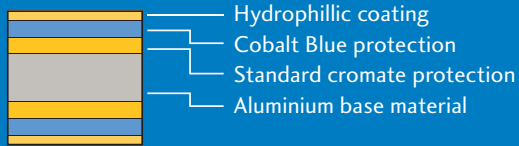


2. Electrical heater output port. An External Electrical heater can be set to operate in conjunction with the heating cycle.



3. External input port. Start/stop of the air conditioner can be controlled from external equipment.

## Cobalt Heat exchanger



The outdoor unit fins are coated with a blue corrosion resistant material to enhance durability and extend performance life of your air conditioner.

## Wide outdoor operating range

Cooling and heating operation can be performed at low ambient conditions

**Cooling**  
Min -5°C to Max 46°C

**Heating**  
Min -15°C to Max 24°C



# Inverter Ducted

## Inverter Ducted Split System – Bulkhead Type

ARTG18L

**C** 5.2 kW / 17,700 BTU/h

**H** 6.0 kW / 20,500 BTU/h



Wired R.C.



For ARTG18L

## Inverter Ducted Split Systems – Slimline Type

ARTG24L

**C** 7.10 kW / 24,200 BTU/h

**H** 8.00 kW / 27,300 BTU/h

ARTA30L

**C** 8.50 kW / 29,000 BTU/h

**H** 10.0 kW / 34,100 BTU/h

ARTA36L

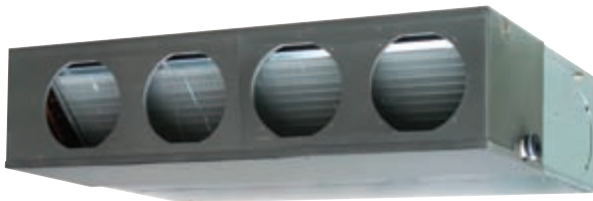
**C** 10.0 kW / 34,100 BTU/h

**H** 11.2 kW / 38,200 BTU/h

ARTA45L

**C** 12.5 kW / 42,700 BTU/h

**H** 14.0 kW / 47,800 BTU/h



Wired R.C.



For ARTG24L  
ARTA30L



For ARTA36/45L  
(For single phase)

## Inverter Ducted Split Systems – High Static

ARTG30LHTA

**C** 9.0kW/ 30,700BTU/h

**H** 11.2kW/ 38,200BTU/h

ARTG36LHTA

**C** 10.5kW/ 35,800BTU/h

**H** 12.1kW/ 41,300BTU/h



Wired type  
(with weekly/  
setback timer)



For ARTG30/36L



## Inverter Ducted Split Systems – High Static

### ARTG45LHTA

**C** 12.5 kW / 42,700 BTU/h

**H** 14.0 kW / 47,800 BTU/h

### ARTG54LHTC

**C** 14.0kW/ 47,800BTU/h

**H** 16.0kW/ 54,600BTU/h



## Inverter Ducted Split Systems – High Static – 3 Phase

### ARTG36LHTB

**C** 10.5 kW / 35,800 BTU/h

**H** 12.1 kW / 41,300 BTU/h

### ARTG45LHTB

**C** 12.5 kW / 42,700 BTU/h

**H** 14.0 kW / 47,800 BTU/h

### ARTG60LHTA

**C** 15.0 kW / 51,200 BTU/h

**H** 18.0 kW / 61,500 BTU/h



## Inverter Ducted Split Systems – High Static – 3 Phase

### ARTC72L

**C** 20.3 kW / 69,300 BTU/h

**H** 22.6 kW / 77,100 BTU/h



### ARTC90L

**C** 25.0 kW / 85,300 BTU/h

**H** 28.0 kW / 95,500 BTU/h

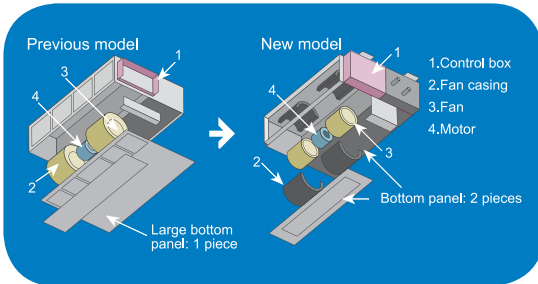


# Features & Benefits

## Slim Line Ducted

### Easy Maintenance

Structural improvement is attained by making the bottom panel two pieces, front and rear. The internal fan casing is also manufactured in two pieces, namely upper and lower. The maintenance of the motor and fan can be easily carried out by removing the rear panel and the lower part of the casing while leaving the main chassis installed.



See above for the case of rear suction type.

### Easy Installation

Main work settings can be done easily from the remote controller at installation.

### Main Work Settings

- High ceiling setting
- Auto restart
- Temperature adjustment when cooling/heating.

### Optional parts

- Flange (Round): UTD-RF204
- Flange (Square): UTD-SF045T
- Remote Sensor Unit: UTD-RS100
- External Control Set: UTD-ECSSA
- Drain Pump Unit: UTZ-PX1NBA

## High Static Ducted

### DC twin rotary compressor

High performance DC twin rotary compressor maximises efficiency from low speed to high speed operation.



## Inverter Ducted – Bulkhead/Slim Type

TYPE	MODEL	UNITS	INVERTER					
Model No.	Indoor Unit		ARTG18LLTA	ARTG24LMC	ARTA30LBTU	ARTA36LATU	ARTA45LATU	
	Outdoor Unit		AOTG18LACC	AOTG24LATC	AOTA30LGTL	AOTA36LBTL	AOTA45LBTL	
Reverse Cycle System			Yes	Yes	Yes	Yes	Yes	
Cooling Capacity		Watts	5,200	7,100	8,500	10,000	12,500	
		BTU/h	17,700	24,200	29,000	34,100	42,700	
Range		Watts	900-5,900	2,900-8,000	2,800-10,000	3,800-11,200	4,000-14,000	
		BTU/h	31,00-20,100	9,900-27,300	9,500-34,100	13,000-38,200	13,700-47,800	
Heating Capacity		Watts	6,000	8,000	10,000	11,200	14,000	
		BTU/h	20,500	27,300	34,100	38,200	47,800	
Range		Watts	900-7,500	2,200-9,100	2,700-11,200	4,000-14,000	4,200-16,200	
		BTU/h	3,100-25,600	7,500-31,000	9,200-38,200	13,700-47,800	14,300-55,300	
Power Supply		Volts	240	240	240	240	240	
Phase-Frequency		Ph- Hz	1-50	1-50	1-50	1-50	1-50	
Power Supply Attachment			Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	
Plug Size (If Applicable)		Amps	NA	NA	NA	NA	NA	
Running Current	Cooling	Amps	6.1	8.8	11.1	13	16.3	
	Heating		Max 9.6	Max 15.7	Max 17	Max 19	Max 20	
	Range		6.6	9.2	11.2	12.7	16.1	
Input	Range	Watts	Max 13.1	Max 15.7	Max 17	Max 19	Max 20	
	Cooling		1,450	2,090	2,650	3,110	3,890	
	Heating		Max 1,610	Max 2,400	Max 4040	Max 4,540	Max 4,780	
	Range		1,560	2,190	2,680	3,020	3,830	
	Range		Max 2,310	Max 2,750	Max 4040	Max 4,540	Max 4,780	
Moisture Removal		l/hr	2	2.5	2.5	3	3.5	
E.E.R.	Cooling		3.59	3.40	3.21	3.21	3.21	
C.O.P.	Heating		3.85	3.65	3.73	3.71	3.66	
Fan Speeds	Stage		4	4	4	4	4	
Air Circulation	High	l/s	261	305	542	513	583	
Compressor Type			Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	
Dimensions and Weights	I.U. mm	Height	198	270	270	270	270	
		Width	900	1,135	1,135	1,135	1,135	
		Depth	620	700	700	700	700	
	Net Weight	kg	23	38	40	40	40	
		O.U. mm	Height	620	830	830	1290	1290
			Width	790	900	900	900	900
			Depth	290	330	330	330	330
Net Weight	kg	41	60	61	98	98		
I.U. Sound Pressure Level		dBA@1metre	32	31	42	40	42	
O.U. Sound Pressure Level		dBA@1metre	55	53	53	54	55	
O.U. Sound Power Level		dBA	71	68	69	69	70	
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	
Connection Pipe Sizes	Gas	mm	12.7	15.88	15.88	15.88	15.88	
	Liquid		6.35	6.35	9.52	9.52	9.52	
Pre Charged Length			15	15	20	20	20	
Minimum Pipe Length		Metre	3	3	5	5	5	
Maximum Pipe Length			30	30	50	50	50	
Maximum Pipe Height			20	30	30	30	30	
Pipe Connection Methods				Flare	Flare	Flare	Flare	Flare
Outdoor operating Temp.	Cooling	Degrees C	-10 to 46	-10 to 46	-15 to 46	-15 to 46	-15 to 46	
	Heating	Degrees C	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	

### DC Fan Motor

High performance and high efficiency compact DC fan motor.



### Sine wave DC inverter control

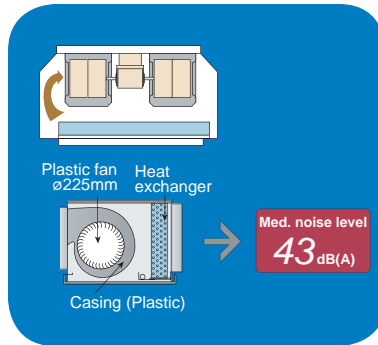
High efficiency operation is realised by using a sine wave DC inverter control.



## Low Noise

### Low noise indoor unit:

The design of the indoor unit allows for a less turbulent air flow. Low noise is achieved by the adaptation of plastic fan and case.



### Low noise outdoor unit:

Introduction of a low outdoor noise operation mode allows the outdoor unit to have two quiet mode operation settings.



## Inverter Ducted – High Static    Inverter Ducted – High Static – 3 Phase

INVERTER				INVERTER				
ARTG30LHTA AOTG30LATL	ARTG36LHTA AOTG36LATL	ARTG45LHTA AOTG45LATL	ARTG54LHTC AOTG54LCTL	ARTG36LHTB AOTG36LATT	ARTG45LHTB AOTG45LATT	ARTG60LHTA AOTG60LATT	ARTC72LATU AOTA72LALT	ARTC90LATU AOTA90LALT
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
9,000	10,500	12,500	14,000	10,500	12,500	15,000	20,300	25,000
30,700	35,800	42,700	47,800	35,800	42,700	51,200	69,300	85,300
4,700-10,000	5,000-11,400	5,700-14,000	6,200-15,200	5,000-11,400	5,700-14,000	6,200-17,500	10,800-23,500	11,200-28,000
16,000-34,100	17,100-38,900	19,500-47,800	21,200-51,900	17,100-38,900	19,500-47,800	21,200-60,000	36,800-80,200	38,200-95,500
11,200	12,100	14,000	16,000	12,100	14,000	18,000	22,600	28,000
38,200	41,300	47,800	54,600	41,300	47,800	61,500	77,100	95,500
5,000-12,100	5,100-14,000	6,000-16,000	6,200-18,000	5,100-14,000	6,000-16,200	6,200-20,000	12,000-26,500	12,500-31,500
17,100-41,300	17,400-47,800	20,500-54,600	21,200-61,500	17,400-47,800	20,500-55,300	21,200-68,300	40,900-90,400	42,600-107,500
240	240	240	240	415	415	415	415	415
1-50	1-50	1-50	1-50	3-50	3-50	3-50	3-50	3-50
Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
NA	NA	NA	NA	NA	NA	NA	NA	NA
11.4	13.4	16.9	18.4	4.6	5.5	6.7	9.3	11.5
Max 18.1	Max 19.6	Max 22.5	Max 23.5	Max 9.0	Max 11.0	Max 12.5	Max 22.8	Max 25.8
12.4	13.9	16	18.3	4.8	5.3	7.3	9.3	12.1
Max 18.1	Max 20.1	Max 22.5	Max 23.5	Max 9.0	Max 11.0	Max 12.5	Max 22.8	Max 25.8
2,700	3,180	4,030	4,400	3,180	3,820	4,700	6,250	7,820
Max 4,300	Max 4,670	Max 5,380	Max 5,630	Max 5,630	Max 6,370	Max 7,400	Max 10,100	Max 12,500
2,950	3,300	3,800	4,370	3,300	3,670	5,150	6,270	8,240
Max 4,300	Max 4,800	Max 5,380	Max 5,630	Max 5,630	Max 6,370	Max 7,400	Max 10,100	Max 12,500
1	1.5	1	1	1.5	1.5	2.0	4.5	6.0
3.33	3.3	3.1	3.18	3.30	3.27	3.19	3.25	3.20
3.8	3.67	3.68	3.66	3.67	3.81	3.50	3.60	3.40
3	3	3	3	3	3	3	3	3
695	695	903	986	695	903	986	1,195	1,347
Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary
400	400	425	425	400	425	425	450	550
1,050	1,050	1,250	1,250	1,050	1,250	1,250	1,587	1,587
500	500	490	490	500	490	490	700	700
39	39	54	54	39	54	54	100	110
1,290	1,290	1,290	1,290	1,290	1,290	1,290	1,690	1,690
900	900	900	900	900	900	900	930	930
330	330	330	330	330	330	330	765	765
86	86	86	93	104	104	104	215	215
41	41	43	45	41	43	45	47	49
52	52	55	55	51	54	56	57	58
67	68	69	70	67	68	71	75	78
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
15.88	15.88	15.88	15.88	15.88	15.88	15.88	25.4	25.4
9.52	9.52	9.52	9.52	9.52	9.52	9.52	12.7	12.7
20	20	20	30	30	30	30	20	20
5	5	5	5	5	5	5	5	5
50	50	50	75	75	75	75	75	75
30	30	30	30	30	30	30	30	30
Flare	Flare	Flare	Flare	Flare	Flare	Flare	Brazed	Brazed
-5 to 46	-5 to 46	-5 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-5 to 46	-5 to 46
-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24

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.

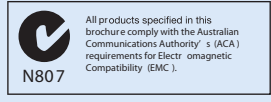
For future improvement, specifications, designs of product and availability are subject to change without notice. Please check with your dealer.

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.



**FUJITSU COMFORT**  
AUSTRALIA'S FAVOURITE AIR™



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