

FUJITSU Hi-Wall

JULY 2008



NEW ZEALAND'S FAVOURITE AIR™

FUJITSU

INVERTER

Hi-Wall Premier

All inverter Hi-Wall models are Energy Star qualified. They offer whisper quiet comfort with additional special filtration options, latest features and technology. As you would expect from Fujitsu, the inverter system has the capacity to heat the room quickly, then automatically adjusts capacity to maintain the set temperature.



- Moisture
- Up/Down
- Auto Louvers
- Auto Shut Louvers
- Adjust
- Restart
- Auto Changeover
- Sleep
- Program
- Wash
- Ion
- AF



Infra red remote control

ASTA09L

Hi-EER: 3.963 (W/W)
Hi-COP: 4.261 (W/W)
 2.60kW / 8,900BTU/h
 3.60kW / 12,300BTU/h



ASTA12L

Hi-EER: 3.801(W/W)
Hi-COP: 3.869 (W/W)
 3.50kW / 11,900BTU/h
 4.80kW / 16,400BTU/h



ASTA18L

Hi-EER: 3.022 (W/W)
Hi-COP: 3.61 (W/W)
 5.20kW / 17,700BTU/h
 6.25kW / 21,300BTU/h



For ASTA9/12



For ASTA18/24



- Moisture
- Up/Down
- Left/Right
- Double
- Auto Louvers
- Auto Shut Louvers
- Adjust
- Restart
- Auto Changeover
- Sleep
- Program
- Wash
- Ion
- AF

ASTA24L

Hi-EER: 3.011 (W/W)
Hi-COP: 3.516 (W/W)
 7.40kW/25,300BTU/h
 8.50kW/29,000BTU/h



ASTA30L

Hi-EER: 2.989 (W/W)
Hi-COP: 3.385 (W/W)
 8.00kW/27,300BTU/h
 9.00kW/30,700BTU/h



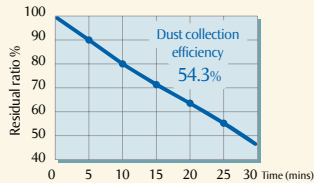
For ASTA30



ASTB24LD **ALL DC** **V PAM**
 Hi-COP:3.5 (W/W)
 C 7.4 kW / 25,200BTU/h
 H 8.5 kW / 29,000BTU/h

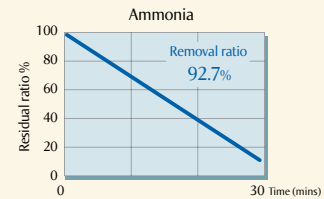
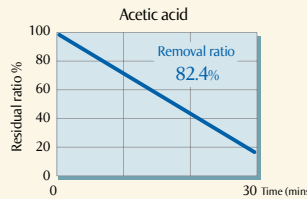


Dust Collection Performance



Test method: JEM 1417 Test room: 30m³, sealed room
 Measurement conditions: Cigarette smoke (5 cigarettes burned simultaneously)

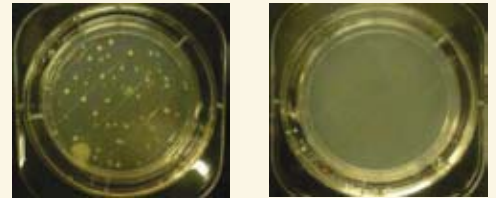
Deodorising Performance



Test method: JEM1467 Test room: 1 m³, acryl sealed box Measurement method: Cigarette smoke (5 cigarettes burned simultaneously)

Sterilisation effect by Polypenol ceraglaze. You can see the difference!

Tested by KITAZATO environment science centre Experiment bacteria:
 Staphylococcus Aureus/Escherichia coil
 Test NO. :15-0253 Test condition: at 20 degrees C/24 hour action
 The undiluted solution of the specimen has made the specimen fluid and suspensoid 0.1ml (approximately 107CFU/ml) of the test bacteria was inoculated.

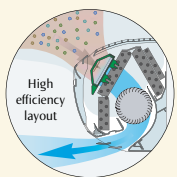


Fujitsu's plasma air cleaning unit effectively cleans the air passing through it.

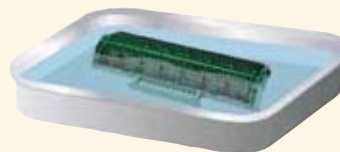
Plasma unit

Minute dust particles are thoroughly collected by an electrostatic filter and odour is suppressed using negatively charged ions. This improved filter is highly effective in collecting dust whilst maintaining clean, odourless air.

Plasma air filter mechanism



Washable Filter



Restored to the same performance as new, each time it is washed.



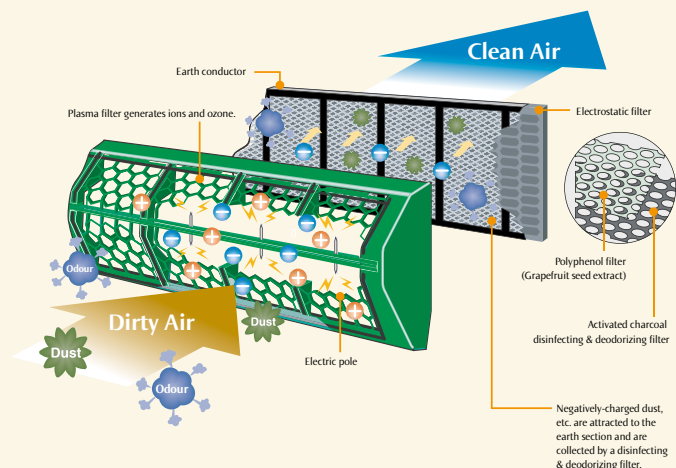
Plasma air cleaner quickly removes small dust particles and odours.

Collects dirt such as...

House dust / Pet fur and dander / Cigarette smoke / Mite carcass / Mould spore / Pollen.

Absorbs odours such as...

Smell of cigarette smoke / Pet odour / Kitchen garbage smell / Perspiration and body odour.



INVERTER

Hi-Wall Plasma

These brilliant models have most of the features and technology of the Premier range with the added bonus of the plasma filter. The plasma filter collects minute dust particles, even mite carcasses, as it absorbs odours to give you clean fresh smelling air. This very effective model heats your room quickly and efficiently, and cools & dehumidifies in summer.



ASTB09LD **ALL DC** **PAM** **ENERGY ENDORSEMENT** **WINNER 2006**
 Hi-COP:4.44 (W/W)
 C 2.60kW / 8,900BTU/h
 H 3.60kW / 12,300BTU/h

ASTB12LD **ALL DC** **PAM** **ENERGY ENDORSEMENT** **WINNER 2006**
 Hi-COP:3.93 (W/W)
 C 3.50kW / 11,900BTU/h
 H 4.80kW / 16,400BTU/h

ASTB18LD **ALL DC** **PAM**
 Hi-COP:3.6 (W/W)
 C 5.20kW / 17,800BTU/h
 H 6.25kW / 21,300BTU/h



Infra red remote control



For ASTB09/12



For ASTB18/24

Air Conditioner Filter Features



Apple-Catechin Filter

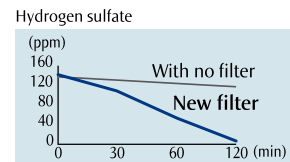
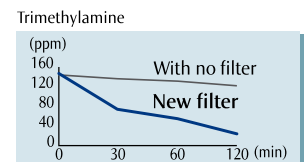
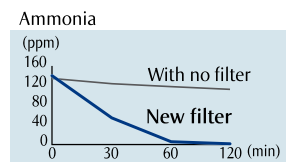
Fine dust, invisible mould spores, and harmful micro organisms are absorbed onto the filter by static electricity, and further growth is inhibited and deactivated by the polypenol ingredient extracted from apples.



Long-life* Ion Deodorisation Filter

The filter deodorises by powerfully decomposing absorbed odours using the oxidizing filter and reducing effects of ions generated by the ultra-fine-particle ceramic. (*The filter can be used for approximately 3 years if it is washed under water to restore its surface action when it is dirty.)

Deodorising Performance (Odour Reduction Rate)



Testing organisation: Environmental Sanitary Inspection Centre Test Method: Deodorisation Test

Easy Maintenance

Easy maintenance and always clean. Troublesome maintenance has been made easy. Since the front panel is easy to remove, maintenance is also easy.



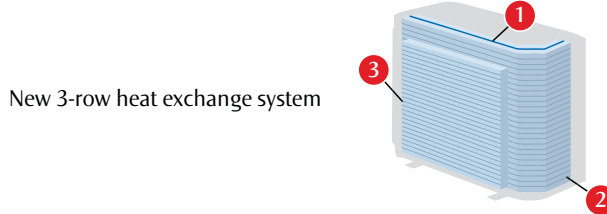
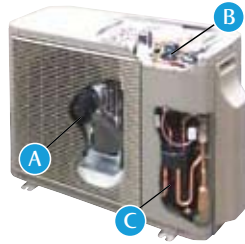
Selected features of the Hi-Wall range

All DC



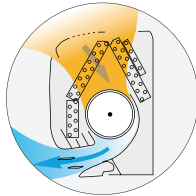
Heat exchange capacities 20% up compared to previous models

- A DC Fan Motor**
- B V-PAM control**
V-PAM technology makes a compressor more powerful.
- C DC compressor**
More compact and quieter than a conventional motor.



New 3-row heat exchange system

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



Easy Maintenance

Easy to remove front panel eliminates troublesome maintenance for cleaning, and provides access to the air filters and special filtration filters.



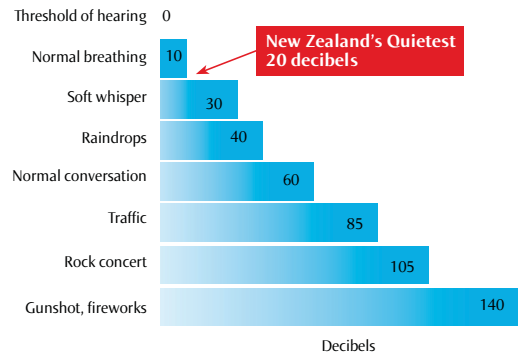
Super Efficient



Blue Energy Star ratings are awarded to selected elite heat pumps that meet a higher level of energy efficiency. At Fujitsu we pride ourselves on value for money and strive to achieve the best, ensuring our models are ranked amongst the best of the best is peace of mind we pass on to you.

Super Quiet

Fujitsu gives you unbeatable quietness from just 20 decibels, while still maintaining the desired temperature.



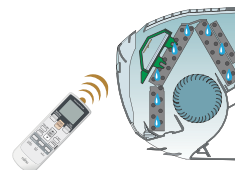
Inner Coil Drying Operation

These models are equipped with an inner drying function, by pressing the coil dry button on the remote control. This prevents the growth of mould and bacteria inside the heat pump.

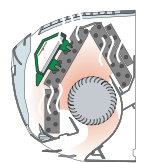
Covered with beading. (drips)
Bacteria can grow in the beading, causing bad odours. To prevent this you only need to press the COIL DRY button, which starts the 30 minute (approx) dry operation.

During dew condensation

Approx. 30 mins Drying



Removes moisture.



"Inner drying operation" and "ozone sterilizing operation" keep the inside of the heat pump clean. That's why air from the heat pump is cleaner and more efficient.

EXPLANATION OF FEATURES (MODEL DEPENDENT)

- Moisture Removal**
The computer effectively dehumidifies the air.
- Automatic Air Flow Adjustment**
The micro-computer automatically adjusts the air flow effectively to follow the changes of room temperature.
- Washable Panel**
- Up/Down Swing Louvers**
The up/down louvers automatically swing to up and down.
- Auto Restart**
In the event of a temporary power failure, the air conditioner will automatically restart in the same operating mode as before, once the power supply is restored.
- Long-life Ion deodorisation filter**
- Right/Left Swing Louvers**
The right/left louvers automatically swing in either direction.
- Auto-Changeover**
The unit automatically switches between heating and cooling modes based on your temperature setting and the room temperature.
- Apple-catechin filter**
- Double Swing Automatic**
Complex swing action of louvers enables automatically to swing both horizontal and vertical directions.
- Sleep Timer**
The micro-computer gradually changes the room temperature automatically to afford a comfortable night's sleep.
- i PAM**
High output and high efficiency performance.
- Automatic Louvers**
The position of the louvers is set automatically to match the operating mode. It is also possible to adjust the louvers using the remote control.
- Program Timer**
This digital timer allows selection of one of four options. ON, OFF, ON → OFF, or OFF → ON, once in a 24 hour period.
- V-PAM**
V-Pam Inverter technology increases the maximum output of the compressor significantly.
- Auto Shut Louvers**
The auto shut louvers close or open automatically when the unit stops or starts.
- ON-OFF Timer**
ON-OFF timer can be set to operate once in a 24 hour period.
- Top Energy Saver Award**
For the most energy efficient Star Rated Products.

SPECIFICATIONS

HI WALL PREMIER

HI WALL PLASMA

Type		INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER
Model No.	Indoor Unit	ASTA09LCC	ASTA12LCC	ASTA18LCC	ASTA24LCC	ASTA30LCC	ASTB09LDC	ASTB12LDC	ASTB18LDC	ASTB24LDC	ASTB09LDC	ASTB12LDC
	Outdoor Unit	AOTR09LCC	AOTR12LCC	AOTR18LCC	AOTR24LCC	AOTR30LCT	AOTS09LDC	AOTS12LDC	AOTS18LDC	AOTS24LDC	AOTS09LDC	AOTS12LDC
Reverse Cycle		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cooling Capacities	Watts	2,600	3,500	5,200	7,400	8,000	2,600	3,500	5,200	7,400	2,600	3,500
	BTU/Hr	8,900	11,900	17,700	25,300	27,300	8,900	11,900	17,700	25,300	8,900	11,900
Cooling Range	Watts	500 - 3,600	900 - 4,300	900 - 5,700	900 - 8,000	2,900 - 9,000	500 - 3,700	900 - 4,300	900 - 5,700	900 - 8,000	500 - 3,700	900 - 4,300
	BTU/Hr	1,700 - 12,300	3,100 - 14,700	3,100 - 19,400	3,100 - 27,300	9,900 - 30,700	1,700 - 12,600	3,100 - 14,700	3,100 - 19,400	3,100 - 27,300	1,700 - 12,600	3,100 - 14,700
Heating Capacities	Watts	3,600	4,800	6,250	8,500	9,000	3,600	4,800	6,250	8,500	3,600	4,800
	BTU/Hr	12,300	16,400	21,300	29,000	30,700	12,300	16,400	21,300	29,000	12,300	16,400
Heating Range	Watts	500 - 5,300	900 - 6,700	900 - 9,100	900 - 10,600	2,200 - 11,000	500 - 6,100	900 - 6,700	900 - 9,100	900 - 10,600	500 - 6,100	900 - 6,700
	BTU/Hr	1,700 - 18,100	3,100 - 22,900	3,100 - 31,000	3,100 - 36,200	7,500 - 37,500	1,700 - 20,800	3,100 - 22,900	3,100 - 31,000	3,100 - 36,200	1,700 - 20,800	3,100 - 22,900
Energy Star Rating	Cool	6	6	4	4	4	6	6	4	4	6	6
	Heat	6	6	5	5	4.5	6	6	5	5	6	6
E.E.R Cool	W/W	3.963	3.801	3.022	3.011	2.989	4.2	3.8	3	3	4.2	3.8
C.O.P Heat	W/W	4.261	3.869	3.61	3.516	3.385	4.4	3.9	3.6	3.5	4.4	3.9
Running Current	Cool	Amps	3 (6 Max)	4.1 (7 Max)	7.3 (9 Max)	10.4 (12 Max)	11.7 (17 Max)	2.8 (6 Max)	4.1 (7 Max)	7.3 (9 Max)	10.4 (12 Max)	11.7 (17 Max)
	Heat	Amps	3.9 (8.5 Max)	5.4 (10 Max)	7.1 (13.5 Max)	10.2 (17.5 Max)	11.6 (19 Max)	3.7 (8.5 Max)	5.3 (10 Max)	7.4 (13.5 Max)	10.2 (17.5 Max)	11.6 (19 Max)
Input Power	Cool	Watts	655 (250 - 1,180)	920 (250 - 1,610)	1,720 (90 - 2,000)	2,460 (110 - 2,620)	2,660 (580 - 3,600)	610 (250 - 1,380)	910 (250 - 1,610)	1,720 (90 - 2,000)	2,460 (110 - 2,620)	2,660 (580 - 3,600)
	Heat	Watts	845 (250 - 1,960)	1,240 (250 - 2,300)	1,730 (90 - 2,660)	2,420 (110 - 3,680)	2,640 (500 - 4,300)	810 (250 - 1,960)	1,220 (250 - 2,300)	1,730 (90 - 2,660)	2,420 (110 - 3,680)	2,640 (500 - 4,300)
Moisture Removal	L/Hr	1.3	1.8	2.8	3	3.4	1.3	1.8	2.8	3	1.3	1.8
Fan Speeds		4	4	4	4	4	4	4	4	4	4	4
Air Circulation	l/s	165	176	194	305	305	165	176	194	305	165	176
Indoor Sound Pressure Level	Quiet	DbA at 1m	21	21	27	32	20	20	25	33	20	20
	Low	DbA at 1m	30	29	32	36	36	29	29	33	29	29
	Med	DbA at 1m	36	36	37	41	41	35	35	39	35	35
	High	DbA at 1m	41	42	42	47	47	40	41	45	40	41
Outdoor Sound Pressure Level	DbA at 1m	48	49	50	52	53	48	49	50	52	48	49
Outdoor Sound Power Level	DbA	65	67	68	68	69	65	67	68	68	65	67
Dimensions and Weights	I.U.	Height	mm	275	275	275	320	320	283	283	283	320
		Width	mm	790	790	790	998	998	790	790	790	998
		Depth	mm	215	215	215	228	228	230	230	230	228
		Net Weight	kg	9	9	9	14	14	9.5	9.5	9.5	14
	O.U.	Height	mm	540	540	578	578	830	540	540	578	578
		Width	mm	660	790	790	790	900	790	790	790	790
		Depth	mm	290	290	300	315	330	290	290	300	315
		Net Weight	kg	32	37	40	44	62	34	36	40	44
Compressor Type		Rotary	Rotary	Rotary	Scroll	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Scroll
Interconnect cables - size	Qty - mm2	4 - 2.5	4 - 2.5	4 - 2.5	4 - 2.5	4 - 2.5	4 - 2.5	4 - 2.5	4 - 2.5	4 - 2.5	4 - 2.5	4 - 2.5
Recommended Min. Power Cable	mm2	2.5	2.5	2.5	4	4	2.5	2.5	2.5	4	4	
Phase - Frequency	Ph - Hz	1-50	1-50	1-50	1-50	1-50	1-50	1-50	1-50	1-50	1-50	
Power Supply Attachment		Indoor	Indoor	Indoor	Outdoor	Outdoor	Indoor	Indoor	Indoor	Outdoor	Outdoor	
Power Supply	Volts	230	230	230	230	230	230	230	230	230	230	
Plug Size (if applicable)		10	15	15	N/A	N/A	10	15	15	15	N/A	
Refrigerant Type		R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a	
Connection Pipe Sizes	Gas	mm	9.52	9.52	12.7	15.88	9.52	9.52	12.7	15.88	9.52	9.52
	Liquid	mm	6.35	6.35	6.35	6.35	9.52	6.35	6.35	6.35	6.35	6.35
Minimum Pipe Length	Metre	3	3	3	5	5	3	3	3	5	5	
Maximum Pipe Length	Metre	20	20	20	30	30	20	20	20	30	30	
Maximum Pipe Height	Metre	15	15	15	20	30	15	15	15	20	30	
Pre Charged Length	Metre	15	15	15	15	20	15	15	15	15	20	
Pipe Connection Method		Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	
Outdoor Operating Temp	Cool	Degree C	-10 to 43	-10 to 43	-10 to 43	-10 to 43	-10 to 43	-10 to 43	-10 to 43	-10 to 43	-10 to 43	
	Heat	Degree C	-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	

EXPLANATION OF TERMS

COP: Stands for coefficient of performance or (more simply!), the relationship between energy used and heat delivered.

For example with a heating COP of 4.11 – you will get 4.11kW of heat for every 1kW of energy used.

Energy Star Rating: your quick guide to energy efficiency – more stars means more efficient.

Indoor Sound – measured in decibels, this is the sound level of your indoor unit at selected fan speeds. For example 20-30 decibels is less than the sound of a human whisper.

Heating Range – with our Kiwi winter, your heat pump needs to be able to supply heat indoors, even when its -15°C outside!

Products depicted in this brochure contain high operating pressure R410a refrigerant. It is illegal to vent that refrigerant to the atmosphere. Only persons qualified and experienced in the installation, service and repair of these products are authorised to undertake such work.

Fujitsu General Accredited Installers have shown they have the necessary equipment and have accepted responsibility for their installations and the requirements of any statutes or laws.

Due to ongoing Research and Development specifications and designs are subject to improvement without notice therefore relevant manuals must be consulted before any action is taken to install or service these products

Heating/Cooling capacities and run current tests are based on the requirements of AS/NZS3283, that standard tests at the temperature below.

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

As actual temperature ranges in New Zealand vary considerably only competent people should provide advice as to size and placement of units.

Recommended cable sizes are based in AS/NZS3000 and AS/NZS3008.

Fujitsu General New Zealand Ltd warrants the equipment against any defects in materials and factory workmanship for a period of five years from the date of installation, or for 6 years if installed by an Accredited Installer.

This warranty does not cover defects or failures which are attributable to; incorrect or improper installation; environmental damage; airflow restriction; inadequate electrical supply; getting access to the product.



NEW ZEALAND'S FAVOURITE AIR™

Fujitsu General New Zealand Limited
www.fujitsugeneral.co.nz

JAS-ANZ



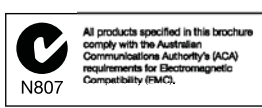
QAS is Accredited by the Self Accreditation System of Australia and New Zealand. App No. 81500062AS



ISO 9002 Certified number: JQA-2005 Certified number: EC98J1137



Hamamatsu Fujitsu General Ltd.



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



THE GLOBAL MARK OF ENERGY EFFICIENCY



5 Year full parts and labour warranty. 6 years (an extra full year's warranty) when you use a Fujitsu Accredited installer.

