

# FUJITSU Hi-Wall

DECEMBER 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.



ASTA09L



Hi-EER: 3.963 (W/W)  
Hi-COP: 4.261 (W/W)

**C** 2.60kW / 8,900BTU/h  
**H** 3.60kW / 12,300BTU/h

ASTA12L



Hi-EER: 3.801(W/W)  
Hi-COP: 3.869 (W/W)

**C** 3.50kW / 11,900BTU/h  
**H** 4.80kW / 16,400BTU/h

ASTA18L



Hi-EER: 3.022 (W/W)  
Hi-COP: 3.61 (W/W)

**C** 5.20kW / 17,700BTU/h  
**H** 6.25kW / 21,300BTU/h



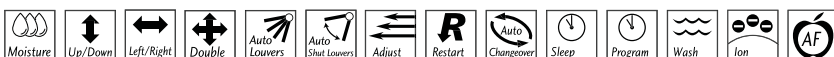
Infra red remote control



For ASTA9/12



For ASTA18/24



ASTA24L



Hi-EER: 3.011 (W/W)  
Hi-COP: 3.516 (W/W)

**C** 7.40kW / 25,300BTU/h  
**H** 8.50kW / 29,000BTU/h

ASTA30L



Hi-EER: 2.989 (W/W)  
Hi-COP: 3.385 (W/W)

**C** 8.00kW / 27,300BTU/h  
**H** 9.00kW / 30,700BTU/h



For ASTA30



ASTB24LD  
 Hi-EER: 3.0 (W/W)  
 Hi-COP: 3.5 (W/W)



**C** 7.4kW / 25,200BTU/h  
**H** 8.5kW / 29,000BTU/h



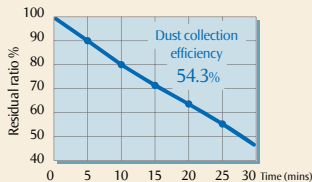
ASTB30LD  
 Hi-EER: 3.05 (W/W)  
 Hi-COP: 3.41 (W/W)



**C** 8.1kW / 27,600BTU/h  
**H** 9.2kW / 31,400BTU/h

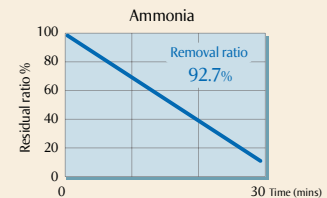
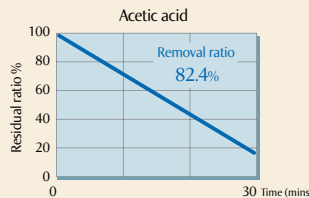


### Dust Collection Performance



Test method: JEM 1417 Test room: 30m<sup>2</sup>, sealed room  
 Measurement conditions: Cigarette smoke (5 cigarettes burned simultaneously)

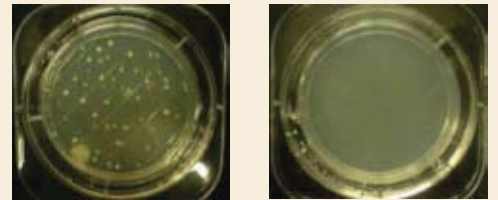
### Deodorising Performance



Test method: JEM1467 Test room: 1m<sup>3</sup>, acryl sealed box Measurement method: Cigarette smoke (5 cigarettes burned simultaneously)

### Sterilisation effect by Polyphenol 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.

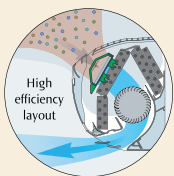


### Fujitsu's plasma air cleaning unit effectively cleans the air passing through it.

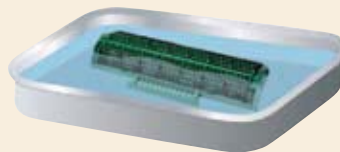
#### Plasma unit

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



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



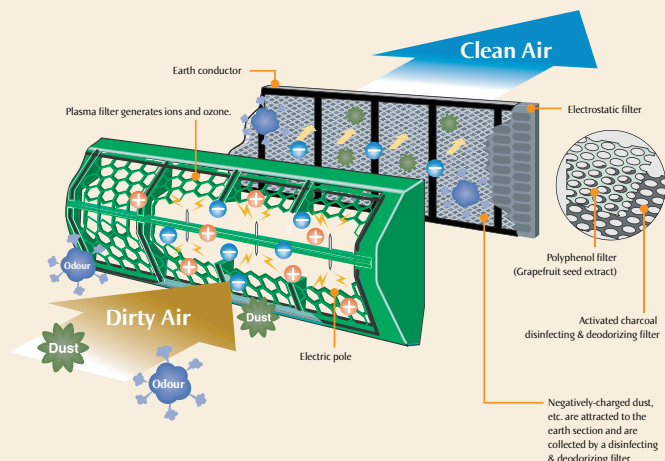
### Plasma air cleaner quickly removes small dust particles and odours.

#### 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.



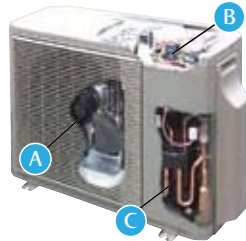
# Selected features of the Hi-Wall range

## All DC

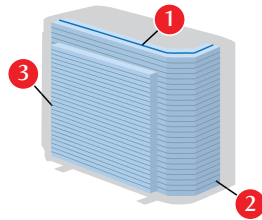


Heat exchange capacities 20% up compared to previous models

- 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.

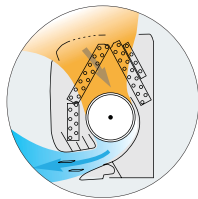


New 3-row heat exchange system



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.



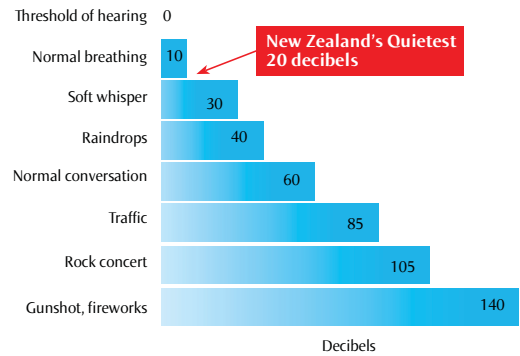
## Super Efficient



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.

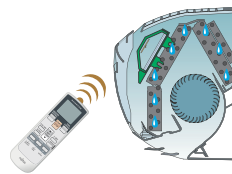


## Inner Coil Drying Operation

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.

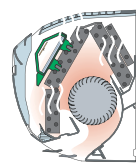
During dew condensation



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.



**Up/Down Swing Louvers**  
The up/down flaps automatically swing to up and down.



**Right/Left Swing Louvers**  
The right/left flaps automatically swing in either direction.



**Double Swing Automatic**  
Complex swing action of louvers enables automatically to swing both horizontal and vertical directions.



**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.



**Auto Shut Louvers**  
The auto shut louvers close or open automatically when the unit stops or starts.



**Automatic Air Flow Adjustment**  
The micro-computer automatically adjusts the air flow effectively to follow the changes of room temperature.



**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.



**Auto-Changeover**  
The unit automatically switches between heating and cooling modes based on your temperature setting and the room temperature.



**Sleep Timer**  
The micro-computer gradually changes the room temperature automatically to afford a comfortable night's sleep.



**Program Timer**  
This digital 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.



**Washable Panel**



**Long-life Ion deodorisation filter**



**Apple-catechin filter**



**i PAM**  
High output and high efficiency performance.



**V-PAM**  
V-Pam Inverter technology increases the maximum output of the compressor significantly.



**Top Energy Saver Award**  
For the most energy efficient Star Rated Products.



Cooling



Heating

## 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 and dehumidifies in summer.



**ASTB09LD** **ALL DC** **PAM** **ENERGY ENDORSEMENT WINNER 2006**

Hi-EER: 4.26 (W/W)  
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-EER: 3.85 (W/W)  
Hi-COP: 3.93 (W/W)

**C** 3.50kW / 11,900BTU/h  
**H** 4.80kW / 16,400BTU/h

**ASTB18LD** **ALL DC** **PAM**

Hi-EER: 3.02 (W/W)  
Hi-COP: 3.61 (W/W)

**C** 5.20kW / 17,800BTU/h  
**H** 6.25kW / 21,300BTU/h



Infra red remote control



For ASTB09/12



For ASTB18/24/30LDC

## Air Conditioner Filter Features



### Apple-Catechin Filter

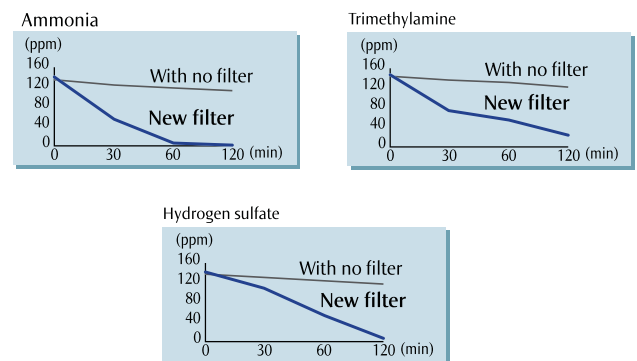
Fine dust, invisible mould spores, and harmful micro organisms are absorbed onto the filter by static electricity, and further growth is inhibited and deactivated by the polyphenol ingredient extracted from apples.



### 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.





QAS is Accredited by the Joint Accreditation System of New Zealand and Australia. See the accreditation logos on the right.



ISO 9001  
ISO 14001  
Certified number: EC2851137  
Hananatsu Fujitsu General Ltd.



UKAS  
Environmental Management System  
Certificate No. 051



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



ENERGY STAR  
THE GLOBAL MARK OF ENERGY EFFICIENCY



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

## 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 get 4.11kW of heat for every 1kW of energy used.

**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!

## SPECIFICATIONS

Type	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER
Model No.	ASTA091LCC	ASTA12LCC	ASTA18LCC	ASTA24LCC	ASTA30LCC	ASTA091DC	ASTA12DC	ASTA18DC	ASTA24DC	ASTA30DC	ASTB091DC
Reverse Cycle	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cooling Capacities	2,600 8,900	3,500 11,900	5,200 17,700	7,400 25,300	8,000 27,300	2,600 8,900	3,500 11,900	5,200 17,700	7,400 25,300	8,000 27,600	2,600 8,900
Cooling Range	500 - 3,600 1,700 - 12,300	900 - 4,300 3,100 - 14,700	900 - 5,700 3,100 - 19,400	900 - 8,000 3,100 - 27,300	2,900 - 9,000 9,900 - 30,700	500 - 3,700 1,700 - 12,600	900 - 4,300 3,100 - 19,400	900 - 5,700 3,100 - 19,400	900 - 8,000 3,100 - 27,300	2,900 - 9,000 9,900 - 30,700	500 - 3,700 1,700 - 12,600
Heating Capacities	3,600 12,300	4,800 16,400	6,250 21,300	8,500 29,000	9,000 30,700	3,600 12,300	4,800 16,400	6,250 21,300	8,500 29,000	9,000 31,400	3,600 12,300
Heating Range	500 - 5,300 1,700 - 18,100	900 - 6,700 3,100 - 22,900	900 - 9,100 3,100 - 31,000	900 - 10,600 3,100 - 36,200	2,200 - 11,000 7,500 - 37,500	500 - 6,100 1,700 - 20,800	900 - 6,700 3,100 - 22,900	900 - 9,100 3,100 - 31,000	900 - 10,600 3,100 - 36,200	2,200 - 11,000 7,500 - 37,500	500 - 6,100 1,700 - 20,800
Star Rating	6	6	5	5	4	6	6	6	4	4	6
E.E.R Cool	3.963	3.801	3.022	3.011	2.989	4.2	3.8	3.8	3	3	4.2
C.O.P Heat	4.261	3.869	3.61	3.516	3.385	4.4	3.9	3.9	3.5	3.5	4.4
Running Current	3 (6 Max) 3.9 (8.5 Max)	4.1 (7 Max) 5.4 (10 Max)	7.3 (9 Max) 7.1 (13.5 Max)	10.4 (12 Max) 10.2 (17.5 Max)	11.7 (17 Max) 11.6 (19 Max)	2.8 (6 Max) 3.7 (8.5 Max)	4.1 (7 Max) 5.3 (10 Max)	7.3 (9 Max) 7.4 (13.5 Max)	10.4 (12 Max) 10.2 (17.5 Max)	11.2 (18.5 Max) 11.4 (18.5 Max)	2.8 (6 Max) 3.7 (8.5 Max)
Input Power	655 (250 - 1,180) 845 (250 - 1,960)	920 (250 - 1,610) 1,240 (250 - 2,300)	1,720 (90 - 2,000) 2,460 (110 - 3,680)	2,460 (110 - 2,620) 2,420 (110 - 3,680)	2,660 (580 - 3,600) 2,640 (500 - 4,300)	910 (250 - 1,380) 1,220 (250 - 2,300)	1,720 (90 - 2,000) 2,420 (110 - 3,680)	2,460 (110 - 2,620) 2,420 (110 - 3,680)	2,460 (110 - 2,620) 2,420 (110 - 3,680)	2,660 (580 - 4,300) 2,700 (500 - 4,300)	910 (250 - 1,380) 1,220 (250 - 2,300)
Moisture Removal	1.3	1.8	2.8	3	3.4	1.3	1.8	2.8	3	3	1.3
Fan Speeds	4	4	4	4	4	4	4	4	4	4	4
Air Circulation	165	176	194	305	305	165	176	194	305	305	165
Indoor Sound Pressure Level	21 29	21 30	27 32	32 36	32 36	20 29	20 29	25 33	33 38	33 39	20 29
Indoor Sound Pressure Level	36 41	36 41	37 41	41 47	41 47	35 41	35 41	39 43	43 49	44 49	35 41
Outdoor Sound Pressure Level	41 48	42 49	42 50	47 52	47 53	40 48	40 49	45 52	49 55	49 55	40 48
Outdoor Sound Power Level	65 75	67 77	68 78	69 80	69 80	65 75	67 77	68 78	69 80	69 80	65 75
Dimensions and Weights	275 790	275 790	275 790	320 998	320 998	283 790	283 790	283 790	320 998	320 998	283 790
Compressor Type	Rotary	Rotary	Rotary	Scroll	Scroll	Rotary	Rotary	Rotary	Scroll	Scroll	Rotary
Interconnect cables - size	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	2.5	2.5	2.5	4	4	2.5	2.5	2.5	4	4	2.5
Phase - Frequency	1-50	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	Indoor
Power Supply	230	230	230	230	230	230	230	230	230	230	230
Plug Size (if applicable)	10	15	15	N/A	N/A	10	15	15	N/A	N/A	10
Refrigerant Type	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a
Connection Pipe Sizes	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35
Minimum Pipe Length	3	3	3	5	5	3	3	3	5	5	3
Maximum Pipe Length	20	20	20	30	30	20	20	20	30	30	20
Maximum Pipe Height	15	15	15	20	20	15	15	15	20	20	15
Pre Charged Length	15	15	15	15	20	15	15	15	15	20	15
Pipe Connection Method	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare
Outdoor	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	-10 to 43
Operating Temp	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	-15 to 24

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.

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.

Printed with 100% vegetable based inks. 4 STAR rated on environmentally friendly paper.



**NEW ZEALAND'S FAVOURITE AIR™**  
Fujitsu General New Zealand Limited  
www.fujitsu-general.co.nz