

# FUJITSU Cassette Type

MARCH 2010



NEW ZEALAND'S FAVOURITE AIR™

FUJITSU



# Come HOME to a WARM WELCOME

## NEW ZEALAND'S FAVOURITE HOME IMPROVEMENT

Fujitsu adds ultimate comfort to your home. Fast effective heating keeps you warm as toast in winter (even when its  $-15^{\circ}\text{C}$  outside) and reverse-cycle delivers a cool dehumidifying environment in summer - all at the touch of a button.

## EFFORTLESS PERFORMANCE, FOR A COST EFFICIENT HOME

Fujitsu's inverter technology coupled with high capacity and compact DC engineering can handle greater temperature extremes than conventional heat pumps, making them more economical and able to reach the desired temperature faster.



## NEW ZEALAND'S MOST EFFICIENT

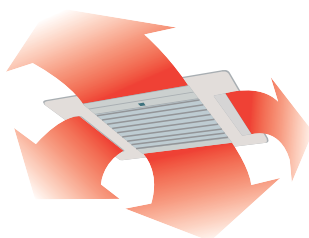
It has been shown that heat pumps are our most efficient form of heating.

On top of that, Fujitsu has been awarded "Most efficient heat pump" in 2008/09/10. That means you save on power costs as well as help the environment by using less energy for heating. Check the "COP" for our models - simply put, a COP of 3.61 means you will get 3.61kW of heating for every 1kW of energy used. Now THAT'S efficient!



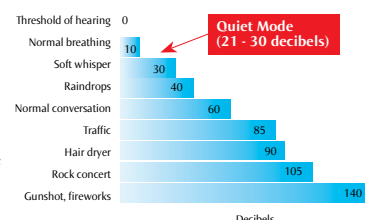
## COMPACT AND DISCREET

The cassette models sit in the ceiling, so they are almost invisible. But you'll feel the difference, with 4-way air distribution (which can be configured to suit your room), and turbo fan technology which will heat (or cool and dehumidify in summer) the whole room quickly and efficiently.



## JUST QUIETLY

Brilliant fan technology and whisper quiet design means that sound is never an issue with Fujitsu. See the back of this brochure for our decibel levels at different fan speeds.



## THE IMPORTANCE OF INSTALLATION

Fujitsu have the only accredited installer scheme in New Zealand. That means when you choose an installer who has achieved Fujitsu Accreditation, you can be assured of a professional installation (plus you will also get a full 6-year parts and labour warranty - New Zealand's longest).



## SIZE MATTERS

Ask your installer about EzEcalc - this brilliant program takes into account every relevant detail about room characteristics, so that the right heat pump can be selected for your unique circumstances - wherever you live in New Zealand.



Your EzEcalc report provides an explanation of the details entered, model selection analysis, as well as useful instructions on use and maintenance to achieve the best results for many years.

## OPTIONAL WALL CONTROLLER

The Wall Controller is a popular option on many models because they are smart, easy-to-use and have features like 7-day timers (so you can 'set and forget').



Check our website for FAQ's, detailed information on how heatpumps work and our full range of models.

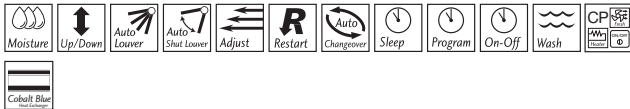
[www.fujitsugeneral.co.nz](http://www.fujitsugeneral.co.nz)

## Compact Cassette

The Compact Cassette is elegant and compact, yet efficient, quiet and very effective.



AUTF18L/AUTA24L



(Supplied)



Infra red remote control (UTB-YNA)

(Optional)



Wall Controller with weekly/set-back timer (UTB-TUD)



AOTA18LACL/AOTA18LALL  
AOTA24LACL/AOTA24LALL

AUTF18LAL



Hi-EER: 3.21 (W/W)

Hi-COP: 3.61 (W/W)

C 5.2kW H 6.0kW

AUTA24LBL



Hi-EER: 3.11 (W/W)

Hi-COP: 3.61 (W/W)

C 7.1kW H 8.0kW

## Cassette

The larger Cassette models have the power to heat and cool large spaces, yet are still discreet, very quiet and super efficient.



AUTA30L/36L/45L/54L



(Supplied)



Wall Controller with weekly/set-back timer (UTB-TUD)

(Optional)



Infra red remote control and receiver kit (UTY-LRHYA1)



AOTA30LBTL



AOTA36LATL/AOTA36LBTL  
AOTA45LATL/AOTA45LBTL

AUTA30BLU



Hi-EER: 3.21 (W/W)

Hi-COP: 3.61 (W/W)

C 8.5kW H 10.0kW

AUTA36LCU



Hi-EER: 3.21 (W/W)

Hi-COP: 3.71 (W/W)

C 10.0kW H 11.2kW

AUTA45LCU



Hi-EER: 3.21 (W/W)

Hi-COP: 3.66 (W/W)

C 12.5kW H 14.0kW

AUTA54LCU



Hi-EER: 3.21 (W/W)

Hi-COP: 3.61 (W/W)

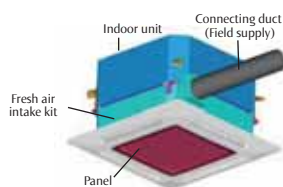
C 14.0kW H 16.0kW

30 Power

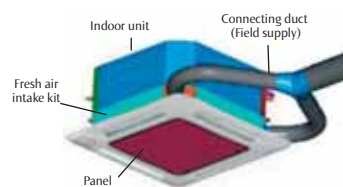
The Cassette models incorporate many features that allow better airflow and comfort for any space.

### Fresh Air

When there is no facility to access 'fresh air' it is possible to use this kit to introduce the outside air via the indoor unit.



For UTZ-VXAA

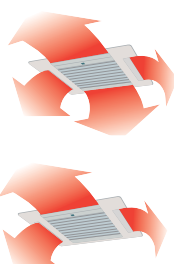


For UTZ-VXGA

### 3 or 4-Way Air Distribution

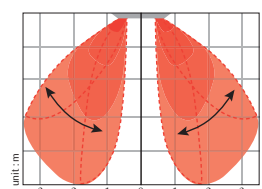
With 4-Way air distribution, strong airflow and quick temperature change is realised when the indoor unit is placed at the centre of the room.

If the indoor unit is to be located adjacent to a wall, an optional 3-Way air outlet configuration can be made to ensure optimum airflow into the same room is maintained.

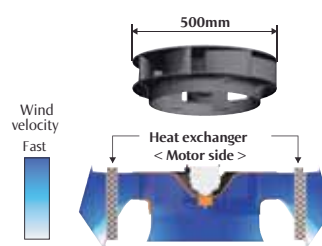


### Air Flow

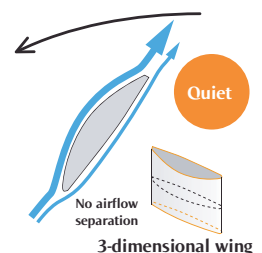
Air reaches the whole room from a ceiling height of 2.7m up to 5m effectively (model dependant).



### High-Efficient Turbo Fan Feature



← : Spin direction → : Airflow direction



## SPECIFICATIONS

| Type                         |              | Inverter             | Inverter             | Inverter        | Inverter            | Inverter            | Inverter        |
|------------------------------|--------------|----------------------|----------------------|-----------------|---------------------|---------------------|-----------------|
| Model No.                    | Indoor Unit  | AUT18LAL             | AUT24LBL             | AUT30LBLU       | AUT36LCU            | AUT45LCU            | AUT54LCU        |
|                              | Outdoor Unit | AOT18LAL / AOT18LALL | AOT24LAL / AOT24LALL | AOT30LBT        | AOT36LAT / AOT36LBT | AOT45LAT / AOT45LBT | AOT54LAT        |
| Cooling Capacities           | kW           | 5.20                 | 7.10                 | 8.50            | 10.0                | 12.5                | 14.0            |
| Cooling Range                | kW           | 0.9 - 5.9            | 0.9 - 8.0            | 2.8 - 10.0      | 3.8 - 11.2          | 4.0 - 14.0          | 5.4 - 16.0      |
| Heating Capacities           | kW           | 6.0                  | 8.0                  | 10.0            | 11.2                | 14.0                | 16.0            |
| Heating Range                | kW           | 0.9 - 7.5            | 0.9 - 9.1            | 2.7 - 11.2      | 4.0 - 14.0          | 4.2 - 16.2          | 5.8 - 18.0      |
| Energy Star Rating           | Cool         | 5                    | 4.5                  | 5               | 5                   | 5                   | N/A             |
|                              | Heat         | 5                    | 5                    | 5               | 5.5                 | 5.5                 | N/A             |
| E.E.R Cool                   | W/W          | 3.21                 | 3.11                 | 3.21            | 3.21                | 3.21                | 3.21            |
| C.O.P Heat                   | W/W          | 3.61                 | 3.61                 | 3.61            | 3.71                | 3.66                | 3.61            |
| Running Current              | Cool         | Amps 6.8 (9.5 Max)   | 9.6 (12.5 Max)       | 11.1 (17.0 Max) | 13.0 (19.0 Max)     | 16.3 (20.0 Max)     | 6.6 (9.9 Max)   |
|                              | Heat         | Amps 7.0 (13.0 Max)  | 9.3 (14.0 Max)       | 11.6 (17.0 Max) | 12.7 (19.0 Max)     | 16.1 (20.0 Max)     | 6.6 (9.9 Max)   |
| Input Power                  | Cool         | kW 1.62 (2.26 Max)   | 2.28 (2.97 Max)      | 2.65 (4.04 Max) | 3.11 (4.54 Max)     | 3.89 (4.78 Max)     | 4.65 (6.72 Max) |
|                              | Heat         | kW 1.66 (3.09 Max)   | 2.21 (3.33 Max)      | 2.77 (4.04 Max) | 3.02 (4.54 Max)     | 3.83 (4.78 Max)     | 4.67 (6.72 Max) |
| Moisture Removal             | L/Hr         | 2.2                  | 2.7                  | 2.5             | 3.0                 | 4.5                 | 5.0             |
| Fan Speeds                   |              | 4                    | 4                    | 4               | 4                   | 4                   | 4               |
| Air Circulation              | Max          | l/s 222              | 258                  | 444             | 500                 | 528                 | 556             |
|                              | Quiet        | DbA at 1m 30         | 33                   | 32              | 33                  | 36                  | 37              |
| Indoor Sound                 | Low          | DbA at 1m 34         | 40                   | 36              | 36                  | 40                  | 41              |
| Pressure Level               | Med          | DbA at 1m 38         | 45                   | 38              | 39                  | 42                  | 43              |
|                              | High         | DbA at 1m 43         | 49                   | 40              | 44                  | 46                  | 47              |
| Outdoor Sound Pressure Level | DbA at 1m    | 50                   | 53                   | 55              | 55                  | 56                  | 56              |
| Dimensions and Weights       | I.U          | Height               | mm 245               | 245             | 288                 | 288                 | 288             |
|                              |              | Width                | mm 570               | 570             | 840                 | 840                 | 840             |
|                              |              | Depth                | mm 570               | 570             | 840                 | 840                 | 840             |
|                              |              | Net Weight           | kg 15                | 17              | 26                  | 27                  | 27              |
|                              | O.U          | Height               | mm 578               | 578             | 830                 | 1,290               | 1,290           |
|                              |              | Width                | mm 790               | 790             | 900                 | 900                 | 900             |
|                              |              | Depth                | mm 300               | 315             | 330                 | 330                 | 330             |
|                              |              | Net Weight           | kg 40                | 44              | 62                  | 98                  | 107             |
| Indoor Unit Hole Cutout Size | mm           | 580 - 660            | 580 - 660            | 860 - 910       | 860 - 910           | 860 - 910           | 860 - 910       |
| Interconnect cables - size   | Qty - mm2    | 4 - 1.5              | 4 - 1.5              | 4 - 1.5         | 4 - 1.5             | 4 - 1.5             | 4 - 1.5         |
| Recommended Min. Power Cable | mm2          | 2.5                  | 4                    | 4               | 6                   | 6                   | 3 x 2.5         |
| Phase - Frequency            | Ph - Hz      | 1 - 50               | 1 - 50               | 1 - 50          | 1 - 50              | 1 - 50              | 3 - 50          |
| Power Supply Attachment      |              | Outdoor              | Outdoor              | Outdoor         | Outdoor             | Outdoor             | Outdoor         |
| Power Supply                 |              | Volts 230            | 230                  | 230             | 230                 | 230                 | 415             |
| Connection Pipe Sizes        | Gas          | mm 12.7              | 15.88                | 15.88           | 15.88               | 15.88               | 15.88           |
|                              | Liquid       | mm 6.35              | 6.35                 | 9.52            | 9.52                | 9.52                | 9.52            |
| Minimum Pipe Length          | Metre        | 3                    | 5                    | 5               | 5                   | 5                   | 5               |
| Maximum Pipe Length          | Metre        | 25                   | 30                   | 50              | 50                  | 50                  | 75              |
| Maximum Pipe Height          | Metre        | 15                   | 20                   | 30              | 30                  | 30                  | 30              |
| Pre Charged Length           | Metre        | 15                   | 15                   | 20              | 20                  | 20                  | 30              |
| Condensate Pump Lift         | mm           | 700                  | 700                  | 800             | 850                 | 850                 | 850             |
| Outdoor Operating Temp       | Cool         | Degree C -10 to 46   | -10 to 46            | -15 to 46       | -15 to 46           | -15 to 46           | -15 to 46       |
|                              | Heat         | Degree C -15 to 24   | -15 to 24            | -15 to 24       | -15 to 24           | -15 to 24           | -15 to 24       |
| Grill                        |              | UTG-UFYB-W           | UTG-UFYB-W           | UTG-UGYA-W      | UTG-UGYA-W          | UTG-UGYA-W          | UTG-UGYA-W      |

## EXPLANATION OF FEATURES (MODEL DEPENDENT)

|                                                                                                        |                                                                                                                                                                                           |                                                                                                   |                                                                                                                                                         |                                                                                                     |                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Moisture         | <b>Moisture Removal</b><br>The computer effectively dehumidifies the air.                                                                                                                 | <br>Changeover | <b>Auto-Changeover</b><br>The unit automatically switches between heating and cooling modes based on your temperature setting and the room temperature. | <br>Distributing | <b>Connectable Distributing Duct</b><br>Conditioned air can be distributed by means of a distribution duct.                                                                     |
| <br>Up/Down          | <b>Up/Down Swing Louvers</b><br>The up/down louvers automatically swing to up and down.                                                                                                   | <br>Sleep      | <b>Sleep Timer</b><br>The micro-computer gradually changes the room temperature automatically to afford a comfortable night's sleep.                    | <br>Fresh        | <b>Connectable Fresh Air Duct</b><br>Duct connection port hole opening. Fresh air can be introduced through this opening.                                                       |
| <br>Auto Louver      | <b>Automatic Louvers</b><br>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.             | <br>Program    | <b>Program Timer</b><br>This digital timer allows selection of one of four options.<br>ON, OFF, ON → OFF, or OFF → ON.                                  | <br>CP           | <b>Control Port</b><br>External inputs and outputs contained within the product allow on/off control.                                                                           |
| <br>Auto Shut Louver | <b>Auto Shut Louvers</b><br>The auto shut louvers close or open automatically when the unit stops or starts.                                                                              | <br>On-Off     | <b>ON-OFF Timer</b><br>ON-OFF timer can be set to operate once.                                                                                         | <br>Wash         | <b>Washable Panel</b>                                                                                                                                                           |
| <br>Adjust           | <b>Automatic Air Flow Adjustment</b><br>The micro-computer automatically adjusts the air flow effectively to follow the changes of room temperature.                                      | <br>Weekly     | <b>Weekly Timer</b><br>Different on-off times can be set for each day.                                                                                  | <br>Controller   | <b>Wall (wired) controller - Optional</b><br>Smart, easy-to-use wall (wired) controller. 7-day timer for 'set and forget'                                                       |
| <br>Restart          | <b>Auto Restart</b><br>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. | <br>W+S        | <b>Weekly + Setback Timer</b><br>Weekly + Setback timer can set temperature for two time spans and for each day of the week.                            | <br>Cobalt Blue  | <b>Cobalt Blue Heat Exchanger</b><br>Outdoor unit fins are coated with a blue corrosion resistant material to enhance durability and extend performance life of your heat pump. |
|                                                                                                        |                                                                                                                                                                                           |                                                                                                   |                                                                                                                                                         | <br>Cooling      | <br>Heating                                                                                  |



## NEW ZEALAND'S FAVOURITE AIR™

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

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.

## 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!

Printed on environmentally responsible paper.



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

www.kiwiheatpumps.co.nz Ph 0800 KIWI HEAT