

# FUJITSU CENTRAL HEATING & COOLING



DISCOVER A NEW LEVEL OF  
LUXURIOUS HOME COMFORT

Featuring  
New Zealand's  
first ever Energy Star  
range of ducted  
heat pumps.



NEW ZEALAND'S FAVOURITE AIR™

**FUJITSU**

# Love the luxury of total home comfort

Home comfort has never been like this before.

Now you can enjoy air-conditioned comfort as well as economical heating throughout your home at the touch of a button.

## Designed for your home

The heat pump unit is concealed and the conditioned air distributed by flexible ducting to the areas you choose. The entire system is tailored to suit your needs, enhancing your lifestyle and adding value to your home.

## Almost invisible

All you will see are discreet vents and the smart wall controller. You will be enjoying your perfectly controlled temperature whatever the weather.

## Energy Star rated heating

Fujitsu's advanced engineering brings you the first Central Heat Pump systems ever to be awarded EECA's Energy Star; so you know you will be getting New Zealand's most economical heating technology, as recommended by EECA.

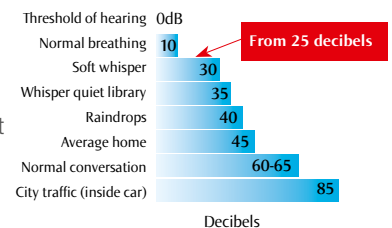


## Advanced engineering

Fujitsu are New Zealand's specialists in heat pump air conditioning. We use Inverter technology and features unique to Fujitsu to bring you better heating (and cooling in summer), extra features and concealed installation.

## Very quiet too

Fujitsu's specialist expertise delivers brilliant fan technology and whisper quiet design, operating as low as 25dB inside – quieter than a human whisper.



## Professional installation

Installation of a ducted Central Heat Pump system needs an experienced specialist to ensure years of trouble free, effective and discreet comfort. The dealers who offer this specialist skill are identified on our website with this logo.



That's why Fujitsu have developed specialist training for those installers who sell and install our equipment. These professionals are experts in airflow and ductwork, and have access to Fujitsu's unique Ductcalc computer program which assists in the selection and application of the perfect heat pump system to suit your home and needs.

## Accredited installer

When you use one of these specialists you will get a full 6 year parts and labour warranty (New Zealand's longest). You can identify these specialists on our website, and call them for an obligation free quote and advice:



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



## Central heating features



**Moisture removal**  
The micro computer is an effective dehumidifier.



**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 heat pump will automatically restart in the same operating mode as before, once the power supply is restored.



**Auto-changover**  
When selected, the unit automatically switches between heating and cooling modes based on your temperature setting and the room temperature.



**Weekly timer**  
Different on-off times can be set for each day.



**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.



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



**Control port**  
External inputs and outputs contained within the product allow on/off control, fresh air interlock connection and heater bank element connection.



**Cobalt blue heat exchanger**  
Outdoor unit fins are coated with a blue corrosion resistant material to enhance durability and extend the performance life of your heat pump.



The Energy Star® is awarded to the top 25% of New Zealand's most efficient appliances. Fujitsu has more Energy Star heat pumps than any other brand



Cooling



Heating





## FUJITSU FEATURES

### Effortless performance

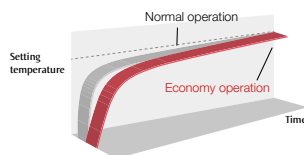
High capacity and compact DC engineering coupled with advanced Inverter systems that can handle greater temperature extremes than conventional heat pumps, means your Fujitsu system will be economical and capable of reaching your desired temperature faster.

Your Fujitsu system will deliver fast and effective heat, even if it ever gets to -15C outside.

OUTDOOR TEMPERATURE	
HEATING	COOLING
-15°C to 24°C	-10°C to 46°C

### Economy operation

This handy function limits the maximum operation current, cutting power consumption and suppressing the maximum load.

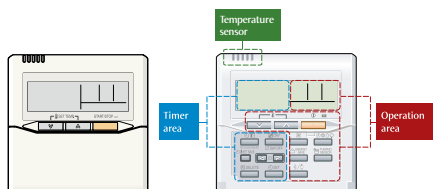


### Smart, simple and easy-to-use controllers

The controller allows you to set your desired temperature; choose energy saving and other modes; set timers for the system to start and stop automatically at the times you choose.

The wall controller has been designed to make operation and timer setting easy. The left side of the controller and LCD display is for setting up timer options, the right side is for setting the ducted system to operate.

The handy green LED above the Start / Stop button clearly indicates that the system is On (when the LED is lit) or Off (when the LED is not lit).



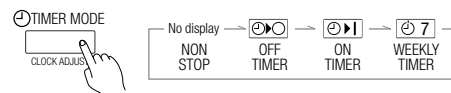
### Program timer options

Once the clock has been set on the controller it is then possible to set up selectable timer program options.

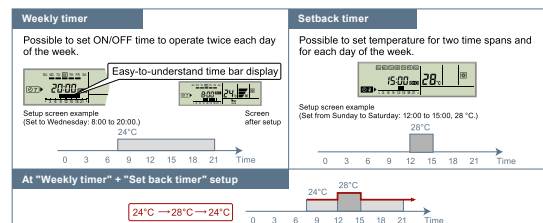
- ON Timer - This is a countdown timer to turn the heat pump on when the time has elapsed
- OFF Timer - This is a countdown timer to turn the heat pump off when the time has elapsed
- Weekly Timer - A simple 5 step process which allows easy set up for each day of the week, with the ability to select 2 on and off settings per day
- Temperature Set-Back Timer - Used in conjunction with other timer settings, this allows for the temperature to be changed during the ON time period

### Auto restart and memory back-up

In the event of a power failure all Fujitsu Inverter ducted models will restart themselves from the last settings of the wall controller. The programmes and timer settings are kept in the controller memory. (This needs to be set up on the wall controller by the installer).

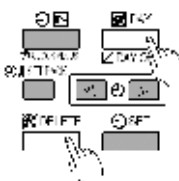


Press the timer mode button to select the ON timer or OFF timer.



### Child lock function

Simply pressing a sequence of buttons on the wired remote controller locks and unlocks the keypad, stopping accidental and unauthorised use.





## Optional controllers

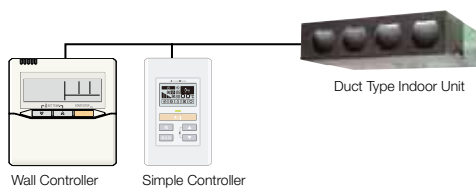
### Room temperature sensor selection

- Wall controller has remote sensor included
- User can select between wall controller sensor and / or return sensor (option)



### Dual remote controller

A second controller allows you to operate the ducted system from two different locations in your home. The second controller provides all the operation functions of the main controller except for timer settings.



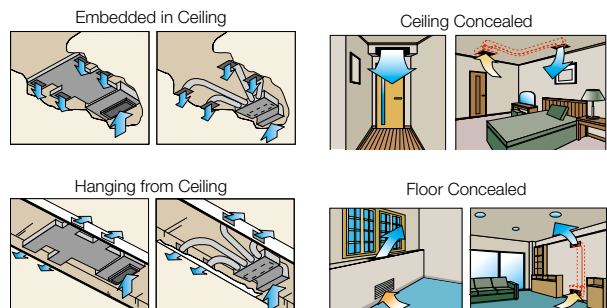
### Group control (typical of commercial applications)

One wall control can regulate up to 16 heat pumps. All of the heat pumps will be operated with the same settings.



## Concealed installation

Ducted systems are surely the ultimate in comfort. Furniture position is not a problem as the indoor unit is typically installed in the ceiling void and discreet ceiling diffusers deliver warm or cool conditioned air throughout your home. The return air grille contains a washable filter that filters the circulated air passing through it. This means that your room is not only the perfect temperature, but dust and dirt particles are removed too.





# Our range of Ducted Central Heating

Fujitsu supply a very wide range of ducted models to suit the homes and conditions throughout New Zealand. Just ask your Fujitsu ducted heat pump specialist to explain which system will best suit your home and your budget. Whichever you use, the luxury of a central heating system will add a new level of comfort to your lifestyle, as well as adding real value to your home.

## The Sleep Pump - When you need a good night's sleep.

Here's an affordable way for a family to create year round comfort in either 3 or 4 bedrooms.

These entry point central heating systems are designed to keep your bedrooms warm in winter, then cool and dehumidify them in summer. The fact that sleep is such an important aspect of your family's health makes these affordable systems not only a lifestyle improvement, but also a genuine contribution to the well-being of the whole family.



**NEW**

### ARTG24MLC (3 bedroom Sleep Pump)



Heating capacity: 8.0kW  
 Heating efficiency: COP 3.65  
 Cooling capacity: 7.1kW  
 Cooling efficiency: EER 3.40  
 Quite mode: just 25dB

### ARTA30LBTU (4 bedroom Sleep Pump)



Heating capacity: 10.0kW  
 Heating efficiency: COP 3.73  
 Cooling capacity: 8.5kW  
 Cooling efficiency: EER 3.21  
 Quite mode: just 29dB

### ARTA36LATU



Heating capacity: 11.2kW  
 Heating efficiency: COP 3.71  
 Cooling capacity: 10.0kW  
 Cooling efficiency: EER 3.21  
 Quite mode: just 26dB

### ARTA45LATU

Heating capacity: 14.0kW  
 Heating efficiency: COP 3.48  
 Cooling capacity: 11.5kW  
 Cooling efficiency: EER 3.23  
 Quite mode: just 28dB







## Bulkhead Type

Compact design allows them to be installed into the cavity of your ceiling, at floor level or in a wall. Typically for a single room application.

**NEW**

### ARTG18LLTA

Heating capacity: 6.0kW  
 Heating efficiency: COP 3.85  
 Cooling capacity: 5.2kW  
 Cooling efficiency: EER 3.59  
 Quiet mode: just 27dB



## Single Phase – Compact Lightweights

These compact chassis systems make hi-static models easy to install without compromising performance. Their excellent static pressures make them ideal for long duct runs or many outlets.

### ARTG30LHTA

Heating capacity: 11.2kW  
 Heating efficiency: COP 3.8  
 Cooling capacity: 9.0kW  
 Cooling efficiency: EER 3.33

### ARTG36LHTA

Heating capacity: 12.1kW  
 Heating efficiency: COP 3.67  
 Cooling capacity: 10.5kW  
 Cooling efficiency: EER 3.30

### ARTG45LHTA

Heating capacity: 14.0kW  
 Heating efficiency: COP 3.68  
 Cooling capacity: 12.5kW  
 Cooling efficiency: EER 3.10

### ARTG54LHTA

Heating capacity: 16.0kW  
 Heating efficiency: COP 3.6  
 Cooling capacity: 14.0kW  
 Cooling efficiency: EER 3.00



## Hi Profile - very high capacity heating and cooling

The larger systems are designed for bigger homes, small business and commercial premises. They deliver up to 28kW of heat, yet still retain the quietness and superb efficiency of the smaller capacity models.

### ARTG60LHTA

Heating capacity: 18.0kW  
 Heating efficiency: COP 3.50  
 Cooling capacity: 15.0kW  
 Cooling efficiency: EER 3.19

### ARTC72LATU

Heating capacity: 22.6kW  
 Heating efficiency: COP 3.60  
 Cooling capacity: 20.3kW  
 Cooling efficiency: EER 3.25

### ARTC90LATU

Heating capacity: 28.0kW  
 Heating efficiency: COP 3.40  
 Cooling capacity: 25.0kW  
 Cooling efficiency: EER 3.20





NEW ZEALAND'S FAVOURITE AIR™

Fujitsu General New Zealand Limited  
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Type	MODEL No.	Indoor Unit	Outdoor Unit	Low Profile	Low Profile	Low Profile	Low Profile	Low Profile	Low Profile	Hi Profile	Hi Profile	Hi Profile	Hi Profile	Hi Profile	Hi Profile
Heating Capacities				80	100	112	140	14.0	11.2	12.1	14.0	16.0	18.0	22.6	28.0
Heating Capacities				2.2-9.1	2.7-11.2	4.0-14.0	4.2-15.5	5.0-12.1	5.1-14.0	5.1-14.0	6.0-16.0	6.2-18.0	6.2-20.0	12.0-26.5	12.5-31.5
Cooling Capacities				7.1	8.5	10.0	11.5	11.4 (18.1)	9.0	10.5	12.5	14.0	15.0	20.3	25.0
Cooling Range				2.9-8.0	2.8-10.0	3.8-11.2	4.0-13.3	4.7-10.0	5.0-11.4	5.0-11.4	5.7-14.0	6.2-15.2	6.2-17.5	10.8-23.5	11.2-28.0
C.O.P Heat				3.65	3.73	3.71	3.48	3.80	3.67	3.68	3.68	3.60	3.50	3.60	3.40
E.E.R Cool				3.40	3.21	3.21	3.23	3.33	3.33	3.10	3.10	3.00	3.19	3.25	3.20
Running Current				9.2 (15.7)	11.2 (17.0)	12.7 (20.0)	16.8 (21.0)	12.4 (18.1)	13.9 (20.1)	13.9 (20.1)	16.0 (22.5)	18.6 (23.5)	7.3	9.3 (22.8)	12.1 (25.8)
Cool (Max)				6.1 (9.6)	11.1 (17.0)	13 (19.5)	14.9 (21.0)	11.4 (18.1)	13.4 (19.6)	13.4 (19.6)	16.9 (22.5)	19.5 (25.8)	6.7	9.3 (22.8)	11.5 (25.8)
Heat (Max)				2.19 (2.75)	2.68 (4.04)	3.02 (4.78)	4.02 (5.02)	2.95 (4.30)	3.30 (4.80)	3.30 (4.80)	3.80 (5.38)	4.44 (5.63)	5.15 (7.4)	6.27 (10.1)	8.24 (12.5)
Cool (Max)				2.09 (2.40)	2.65 (4.04)	3.11 (4.66)	3.56 (5.02)	2.70 (4.30)	3.18 (4.67)	3.18 (4.67)	4.03 (5.38)	4.66 (5.63)	4.7 (7.4)	6.25 (10.1)	7.82 (12.5)
Moisture Removal				2.0	2.5	3.0	3.5	1.0	1.5	1.5	1.0	1.0	2.0	4.5	6
Fan Speeds				4	4	4	4	3	3	3	3	3	3	3	3
Air Circulation				261	305	514	583	695	695	695	900	986	986	1190	1340
Indoor Sound Level				27	29	31	32	36	36	36	35	36	36	41	43
Outdoor Pressure Level				30	32	36	38	41	41	41	43	45	45	47	49
Dimensions and Weights				32	31	42	42	42	41	41	43	45	45	57	59
Supply				56	54	54	55	53	54	54	55	56	58	57	59
Return				198	270	270	270	270	400	400	425	425	425	450	550
Height				900	1135	1135	1135	1050	1050	1050	1250	1250	1250	1587	1587
Depth				620	700	700	700	700	500	500	490	490	490	700	700
Net Weight				23	38	40	40	39	39	39	54	54	54	100	110
Height				620	830	1290	1290	1290	1290	1290	1290	1290	1290	1690	1690
Width				790	900	900	900	900	900	900	900	900	900	930	930
Depth				290	330	330	330	330	330	330	330	330	330	765	765
Net Weight				41	60	61	94	86	86	86	86	86	104	215	215
Supply				850 X 198	4 X 205 dia	4 X 205 dia	4 X 205 dia	851 X 295	851 X 295	851 X 295	921 X 304	921 X 304	921 X 304	1200 X 350	1200 X 350
Return				Bulkhead	1015 X 240	1015 X 240	1015 X 240	862 X 324	862 X 324	862 X 324	1062 X 351	1062 X 351	1062 X 351	1250 X 470	1250 X 470
Ex Static Pressure				0-90	30-150	30-150	30-150	60-210	60-210	60-210	60-260	60-260	60-260	50-250	50-250
Interconnect Cables - Size				4-1.5	4-1.5	4-1.5	4-1.5	4-1.5	4-1.5	4-1.5	4-1.5	4-1.5	4-1.5	4-1.5	4-1.5
Recommended Min. Power Cable				4	4	4	4	6	6	6	6	6	6	6	6
Phase - Frequency				1-50	1-50	1-50	1-50	1-50	1-50	1-50	1-50	1-50	1-50	3-50	3-50
Power Supply Attachment				Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Power Supply				230	230	230	230	230	230	230	230	230	230	415	415
Connection Pipe Sizes				12.7	15.88	15.88	15.88	15.88	15.88	15.88	15.88	15.88	15.88	25.4	25.4
Minimum Pipe Length				6.35	6.35	6.35	6.35	9.52	9.52	9.52	9.52	9.52	9.52	12.7	12.7
Maximum Pipe Length				5	5	5	5	5	5	5	5	5	5	5	5
Maximum Pipe Height				30	30	30	30	30	30	30	30	30	30	30	30
Pre-Charged Length				20	20	20	20	20	20	20	20	20	20	20	20
Outdoor Operating Temperature				-10 to 46	-10 to 46	-10 to 46	-10 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-5 to 46	-5 to 46
Heat				-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	-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.

Heating/Cooling capacities and run current tests are based on the requirements of AS/NZS3823, 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

**Capacity** The higher the capacity, the more area and faster the heat pump will heat (and cool) the room.

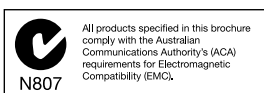
**COP** Stands for "Coefficient of Performance", or (more simply!) - the relationship of energy used and heat delivered For example - a COP of 4.32 means you will get 4.32kW of heat for every 1kW of energy used.

**EER** Stands for "Energy Efficiency Ratio", or (more simply!) - the relationship of energy used and cooling effect delivered.

**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!

Fujitsu General proud sponsors of:



6 years (New Zealand's longest) when you use a Heat Specialist with Fujitsu Accreditation.