# FUJITSU CENTRAL HEATING & COOLING



Featuring

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

> New Zealand's Most Energy Efficient Products

DISCOVER A NEW LEVEL OF LUXURIOUS HOME COMFORT

> FUJITSU BETTER HEAT , BETTER EFFICIENCY,

FUJITSU



0 × 0

# 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 Whisper quiet library technology and whisper quiet design, operating as low as Normal conversation 25dB inside – quieter than a City traffic (inside car) human whisper.

#### Professional installation

Installation of a ducted Central Heat Pump system needs an experienced specialist to ensure years of trouble free,

Threshold of hearing OdB

Normal breathing 10

Soft whisner

Raindrops

Average home

effective and discreet comfort. The dealers who offer this specialist skill are identified on our website with this logo.



Decibels

From 25 decibe

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:





#### **Central heating features**



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



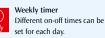
Automatic air flow adjustment The micro-computer automatically adjusts the air flow effectively to follow the changes of room temperature.



Restart 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.



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



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 can be taken in by a fan

which can be connected using UTD-

contained within the product allow

connection and heater bank element

on/off control, fresh air interlock

Fresh air intake

connection.

ECS5A (optional parts).

Control port External inputs and outputs

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.







#### **FUJITSU FEATURES**

#### Effortless performance

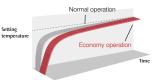
High capacity and compact DC engineering coupled with advanced Inverter systems that can handle greater temperature extremes than conventional heat pumps, means your Fujitsu system will be economical and capable of reaching your desired temperature faster.

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

OUTDOOR TH	EMPERATURE
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.

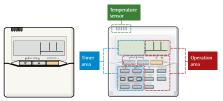


#### Smart, simple and easy-to-use controllers

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).

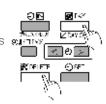


Press the timer mode button to select the ON timer or OFF timer.



#### 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)



#### **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.

#### Dual remote controller

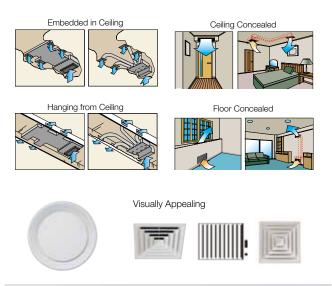
A second controller allows you to operate the ducted system from two different locations in your home. The second controller provides all the operation functions of the main controller except for timer settings.



#### 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.







# 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

#### ARTG24LMLC (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



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



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.



#### 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.

### 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.

Champerger Weekly W+S Distributing Fresh CP File

#### ARTG60LHTA

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

#### ARTC90LATU

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

#### ARTC72LATU Heating capacity: 22.6kW

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

## ARTG30LHTA

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

#### ARTG45LHTA 🔛

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



ARTG36LHTA

Heating capacity: 12.1kW

Cooling capacity: 10.5kW

Heating efficiency: COP 3.67

Cooling efficiency: EER 3.30



Indoor Unit         MRG BLIA         MRG BLIA         MRG C241MLG         MRG C24MG         MRG C24MG         MRG C24MG         MRG C24MG         MRG C24MG         MRG C24M			LOW Profile	LOW Pronie										
Outdoor Unit         ADIG181AAC         ADIG241ATC           Capacities         kW         60         80           Capacities         kW         09-75         22-91           Capacities         kW         09-75         22-91           Capacities         kW         09-75         22-91           Capacities         wW         355         22-91           Capacities         wW         359         340           Capacities         wW         359         340           Carrent         wW         359         340           Unrent         KW         359         340           wer         Cool (Max)         Mmps         66 (131)         92 (15.7)           wer         L/H         WW         359         340           wer         Cool (Max)         Mmps         66 (131)         92 (15.7)           wer         L/H         210         229         340           Removal         Max         WW         156 (231)         92 (15.7)           wer         Cool (Max)         Mmps         66 (131)         92 (15.7)           wer         Cool (Max)         Mmps         68 (131)         92 (15.7)			ARTG1811TA	ARTG241 MLC	ARTA301 BTU	ARTA36I ATU	ARTA451 ATU	ARTG301 HTA	ARTG36I HTA	ARTG451 HTA	ARTG541 HTA	ARTG601 HTA	ARTC721 ATU	ARTC901 ATU
			AOTG18LACC	AOTG24LATC	AOTA30LGTL	AOTA36LCTL	AOTA45LCTL	AOTG30LATL	AOTG36LATL	AOTG45LATL	AOTG54LATL	AOTG60LATT	AOTA72LALT	AOTA90LALT
		kw	6.0	8.0	10.0	11.2	14.0	11.2	12.1	14.0	16.0	18.0	22.6	28.0
	lange	kw	0.9 - 7.5	2.2 - 9.1	2.7 - 11.2	4.0 - 14.0	4.2 - 15.5	5.0 - 12.1	5.1 - 14.0	6.0 - 16.0	6.2 - 18.0	6.2 - 20.0	12.0 - 26.5	12.5 - 31.5
	Capacities	kw	5.2	7.1	8.5	10.0	11.5	0.6	10.5	12.5	14.0	15.0	20.3	25.0
at interval	lange	kw	0.9 - 5.9	2.9 - 8.0	2.8 - 10.0	3.8 - 11.2	4.0 - 13.3	4.7 - 10.0	5.0 - 11.4	5.7 - 14.0	6.2 - 15.2	6.2 - 17.5	10.8 - 23.5	11.2 - 28.0
	at	W/M	3.85	3.65	3.73	3.71	3.48	3.80	3.67	3.68	3.60	3.50	3.60	3.40
$\label{eq:linearity} Interest in the second max in the second ma$	-	W/W	3.59	3.40	3.21	3.21	3.23	3.33	3.30	3.10	3.00	3.19	3.25	3.20
			6.6 (13.1)	9.2 (15.7)	11.2 (17.0)	12.7 (20.0)	16.8 (21.0)	12.4 (18.1)	13.9 (20.1)	16.0 (22.5)	18.6 (23.5)	7.3	9.3 (22.8)	12.1 (25.8)
Mer         Heat (Max)         KW         155 (231)         219 (2.75)           Removal         L/Hr         2.00         2.5         4           ds         L/Hr         2.00         2.5         2.09 (2.40)           ds         Max         L/Hr         2.00         2.5           ds         Max         L/Hr         2.00         2.5           bd         New         1/5 (1.61)         2.09 (2.40)         2.5           bd         New         Visit         2.61         3.05         2.5           bud         Uow         Dba at 1.0m         2.7         2.5         2.5           height         Med         Dba at 1.0m         2.7         2.5         2.7           height         Mer         Dba at 1.0m         2.7         2.7         2.7           height         mm         9.00         2.7         2.7         2.7           height         mm         6.00         2.7         3.8         2.7           height         mm         7.00         2.7         3.8         2.7           height         mm         7.00         2.7         3.8         3.8           height         m			6.1 (9.6)	8.8 (15.7)	11.1 (17.0)	13 (19.5)	14.9 (21.0)	11.4 (18.1)	13.4 (19.6)	16.9 (22.5)	19.5 (23.5)	6.7	9.3 (22.8	11.5 (25.8)
Removal         Cool (Max)         Kw         [-3-1(1.61))         2.09 (2.40)           ds         1         4         4         4           ds         1         20         25         25           duid         1         20         25         25           bund level         0uet         Dba at 1.0m         27         25           bund level         0wed         Dba at 1.0m         27         25           height         mm         27         25         27           height         mm         30         29         27           height         mm         900         1135         2700           height         mm         900         1135         2700           height         mm         900         1135         2700           height         mm         620         700         330           height         mm         620         330         2700           height         mm         620         330         330           height         mm         620         330         330           height         mm         270         330         330			1.56 (2.31)	2.19 (2.75)	2.68 (4.04)	3.02 (4.78)	4.02 (5.02)	2.95 (4.30)	3.30 (4.80)	3.80 (5.38)	4.44 (5.63)	5.15(7.4)	6.27 (10.1)	8.24 (12.5)
Kernoval         LTT         2.0         2.3           d5         Max $l/s$ 4         4           lation         Max $l/s$ 21         23           undlevel         Low         Dbaat 1.0m         27         25           nundlevel         Low         Dbaat 1.0m         27         25           Pressure Level         Max         Dbaat 1.0m         30         29           Pressure Level         Max         Dbaat 1.0m         32         31           Pressure         Net Weight         kg         23         38           Methin         mm         620         700         30           Methin         mm         230         33         33           Methin         mm         230         33         33           Methin         mm         230         33         33           Methin         mm         230         30	-		(10.1) cf.1	(04.2) 40.7 2 2	(40.4) 2.52	3.11 (4.66)	(20.5) مح.5 2 م	2./U (4.3U)	3.18 (4.67) 15	4.03 (5.38)		4./(/.4)	(1.01) 62.0	(6.21)28./
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Pa         0-90         30-150           ize         Qty-mm2         4-1.5         4-1.5           wer Cable         mm2         4-1.5         4-1.5           wer Cable         mm2         4-1.5         4-1.5           Ph-Hz         Ph-Hz         1-50         1-50           ent         Volts         230         230           fiquid         mm         12.7         15.88           liquid         mm         6.35         6.35           Metre         5         5         5           Metre         30         30         30           Metre         20         20         30           Metre         20         30         20           Metre         20         30	3126	mm	Bulkhead	1015 X 240	1015 X 240	1015 X 240	1015 X 240	862 X 324	862 X 324	1062 X 351	1062 X 351	1062 x 351	1250 x 370	1250 x 470
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wer Cable         mm2         4         4           Ph-Hz         1-50         1-50           ent         Outdoor         0utdoor           Gas         mm         1230         230           Gas         mm         6.35         6.35           Liquid         mm         6.35         6.35           Metre         5         5         5           Metre         20         30         30           Metre         20         20         30           Metre         20         30         30           Cool         Derived         20         30           Cool         Dorder         20         30	nect Cables - Size	Qty - mm2	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
Ph-Hz         1-50         1-50           ent         Nucleor         0ucleor         0ucleor           Gas         wm         12,7         15,88           Liquid         mm         6,35         6,35           Metre         5         5         5           Metre         5         30         30           Metre         20         10,14,6         10,14,6	ended Min. Power Cable	mm2	4	4	4	9	9	9	9	9	9	2.5	9	9
ent         Outdoor         Outdoor           cas         wm         12.7         15.88           Iquid         mm         6.35         6.35           liquid         mm         6.35         6.35           Metre         5         5         5           Metre         5         30         30           Metre         20         20         30           Metre         15         20         30           Metre         16         20         30           Metre         16         20         30           Metre         1010.46         20         30	requency	Ph - Hz	1 - 50	1 - 50	1 - 50	1 - 50	1 - 50	1 - 50	1 - 50	1 - 50	1 - 50	3-50	3 - 50	3 - 50
Volts         230         230           Gas         mm         12.7         15.88           Liquid         mm         6.35         6.35           Metre         5         5         5           Metre         5         30         30           Metre         30         30         30           Metre         20         30         30           Metre         10.10.46         10.046         30	pply Attachment		Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Gas         mm         12.7         15.88           Liquid         mm         6.35         6.35           Metre         5         5         5           Metre         30         30         30           Metre         20         30         30           Metre         20         30         30           Cool         Derror         1010.4K         1010.4K	pply	Volts	230	230	230	230	230	230	230	230	230	415	415	415
Liquid         mm         6.35         6.35           Metre         5         5         5           Metre         30         30         30           Metre         20         30         30           Metre         20         30         30           Metre         20         30         30           Metre         10         30         30           Coul         Demonsof         100.46         20		mm	12.7	15.88	15.88	15.88	15.88	15.88	15.88	15.88	15.88	15.88	25.4	25.4
Metre         5         5           Metre         30         30           Metre         20         30		mm	6.35	6.35	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	12.7	12.7
Bth         Metre         30         30         30         30         31         31         31         31         32         31         31         32 <th< td=""><th>ר Pipe Length</th><td>Metre</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>2</td></th<>	ר Pipe Length	Metre	5	5	5	5	5	5	5	5	5	5	5	2
bht Metre 20 30 Metre 15 20 Fool Damoof -1016.4.6	n Pipe Length	Metre	30	30	50	50	50	50	50	50	50	75	75	75
Metre 15 20 Cool Dorrad 10 to 46 -10 to 46	n Pipe Height	Metre	20	30	30	30	30	30	30	30	30	30	30	30
Cool Datree		Metre	15	20	20	20	20	20	20	20	20	30	20	20
		Degree C	-10 to 46	-10 to 46	-15 to 46	-15 to 46	-15 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-15 to 46	-5 to 46	-5 to 46
Temperature Heat Degree C -15 to 24 -15 to 24 -15 to 24		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	-15 to 24	-15 to 24

#### JANUARY 2013



#### 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/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

СОР

EER

Indoor Sound

Heating Range

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

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.

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

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.

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:





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Rew Zealand's Most Energy Efficient ENERGY STAR Products



6 YEAR WARRANTY ACCREDITED HEAT SPECIALIST

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