FUJITSU Multi Room System





A

NEW ZEALAND'S FAVOURITE AIR

FUJITSU



Multi Room Systems

The new Fujitsu Inverter Multi System is the ideal way to have indoor heat pumps in more than one room, for example a living room and 3 bedrooms.

The choice of systems allows a wide variety of 2, 3 or 4 indoor units to be connected to just 1 outdoor unit and you can tailor your own combination of hi wall, floor console, cassette or bulkhead to best suit each room. Our product range include 5 indoor unit types spanning 12 models ranging in capacity from 2.0kW to 7.0kW. With such a diverse choice of options there is a combination to suit most homes or small businesses in New Zealand.

ALL THE HEAT YOU NEED

Fujitsu engineering delivers all the heat you need just when you need it. You'll be as warm as toast even when it's freezing cold outside, wherever you live in New Zealand. The reverse cycle uses the same engineering to cool and dehumidify your home environment in summer.



QUIETLY DOES IT

Brilliant fan technology, plus 'quiet mode' on most Fujitsu models means that noise is not an issue with Fujitsu. Compare our decibel levels (see back of this brochure) and you will see that even our larger heat pumps operating on full capacity are usually



quieter than any other brand in New Zealand.

Whisper quiet is a Fujitsu fact - not just an advertising claim.

A FRESHER, HEALTHIER HOME

Fujitsu's advanced air purifying and deodorising filters on most models absorb minute dust particles, invisible mould spores, pollen and other harmful micro organisms. This will give you a healthier home environment, which is why Fujitsu is recommended by Asthma New Zealand.



Fujitsu is approved by Asthma New Zealand

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).



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



Fujitsu Multi System Features

Controller Options

WIRED REMOTE CONTROLLER	SIMPLE REMOTE CONTROLLER	WIRELESS REMOTE CONTROLLER		IR RECEIVER UNIT
UTY-RNNYN	UTY-RSNYN	AR-RAH1E	AR-RAH2E	UTY-LRHYM
		INE	DOOR UNITS	

			INDOOR UNITS							
ТҮРЕ	MODEL	Compact Cassette (AUTG)	Slim Duct (ARTG)	Compact Wall Mounted (ASTG_LVCA)	Wall Mounted (ASTGLFCA)	Floor / Ceiling (ABTG)				
Wired Remote Controller	UTY-RNNYN	0	•	O'1	0	0				
Wireless Remote Controller	AR-RAH2E	-	-	-	•	•				
wireless kemote Controller	AR-RAH1E	•	-	•	-	-				
IR Receiver Unit	UTY-LRHYM	-	0	-	-	-				
Simple Remote Controller	UTY-RSNYN	0	0	O ^{*1}	0	0				

● Included Function ○ Optional Function *1 Optional Communication Kit (UTY-XCBXZ1) is necessary for the installation

Independent Control

Each indoor unit can be operated independently. This means that on / off, temperature, air movement, time clock operation can all be controlled from their own controller. (The multi system cannot be operated in heat and cool mode simultaneously).

SPACE-SAVING INSTALLATION

Multiple indoor units can be connected to 1 outdoor unit rather than having to have multiple outdoor units. This means greater flexibility and space savings, while long pipe run offer versatile installation options.



Max. Piping Length (Each Unit): 25m (AOTG24LAT3/30LAT4)

Max. Height: 15m (AOTG24LAT3/30LAT4)

Total Piping Length: 50m (AOTG24LAT3) 70m (AOTG30LAT4)

10°C HEAT OPERATION

Operation starts and maintains the room temperature at 10°C when the temperature drops below 10°C.



When the room temperature is higher than 10°C, "10°C HEAT" operation does not start.

INNOVATIVE TECHNOLOGY



High Efficiency Large Fan Newly designed fans have been used to increase airflow efficiency.



High performance and high efficiency has been achieved by using a new smaller DC Fan Motor.

DC Fan Motor

ECONOMY OPERATION

By maintaining a slightly higher temperature in cool mode, lower temperature in heat mode and limiting the maximum current draw real energy savings are achieved.





High Efficiency DC Twin **Rotary Compressor**

A high performance, low noise, large capacity DC Twin Rotary Compressor is used.



ASTG18L/24L		•	•	•	•	•			•	•	•	0
ABTG18LVTA		•	•	•	•	•	•	0				0
AUTG09L/12L/18L	•		•	•	•	•	0	0				0
ARTG09L/12/18L	0		•	•	0	•	0	0				•

Included Function
Optional Function

МО	MODEL No.		COMPACT CASSETTE (AUTG)			SLIM DUCT (ARTG)		COMPACT WALL MOUNTED (ASTG_LVCA)			WALL MOUNTED (ASTG_LFCA)		FLOOR / CEILING (ABTG)
		AUTG09-18LVLA [M]		ARTG09-18LLTA [M]		ASTG07-12LVCA [M]		ASTG18-24LFCA [M]		ABTG18LVTA [M]			
	BTU Class	09	12	18	09	12	18	07	09	12	18	24	18
	kW Class	2.5	3.5	5.0	2.5	3.5	5.0	2.0	2.5	3.5	5.0	7.0	5.0
2-3 Rooms	AOTG24LAT3	•	•	•	•	•	•	•	•	•	•	-	•
3-4 Rooms	AOTG30LAT4	•	•	•	•	•	•	•	•	•	•	•	•

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.

HI-WALL INDOOR UNITS

FLOOR / CEILING INDOOR LINITS

									INDOOK UNITS
Туре				HI WALL	UNIVERSAL				
MODEL No.			Indoor Unit	ASTG07LVCA [M]	ASTG09LVCA [M]	ASTG12LVCA [M]	ASTG18LFCA [M]	ASTG24LFCA [M]	ABTG18LVTA [M]
Capacity Class			kW	2.0	2.5	3.5	5.0	7.0	5.0
Fan Speeds				4	4	4	4	4	4
Air Circulation		High	l/s	178	178	194	250	311	217
		Quiet	Dba at 1m	22	23	24	25	33	32 UC/35 FC
Indoor Sound		Low	Dba at 1m	32	32	33	33	37	34 UC/37 FC
Pressure Level	Pressure Level	Medium	Dba at 1m	33	33	35	37	42	38 UC/41 FC
		High	Dba at 1m	36	36	38	42	48	41 UC/44 FC
		Height	mm	293	293	293	320	320	199
Dimensions	LU	Width	mm	790	790	790	998	998	990
and Weights	1.0	Depth	mm	225	225	225	238	238	655
		Net Weight	kg	9.5	9.5	9.5	14	14	27
Interconnect C	ables -	Size	Qty - mm2	4 - 2.5	4 - 2.5	4 - 2.5	4 - 2.5	4 - 2.5	4 - 2.5
Power Supply /	Attach	ment		To Outdoor Unit					
Connection		Gas	mm	9.52	9.52	9.52	12.7	15.8	12.7
Pipe Sizes		Liquid	mm	6.35	6.35	6.35	6.35	6.35	6.35

BULKHEAD INDOOR UNITS

Inverter

AOTG24LAT4

Yes

6.8 (8.5 Max)

8.0 (9.2 Max)

35

40

8.1 (10.9 Max)

8.4 (12.1 Max)

1.94 (2.6 Max)

2.0 (2.87 Max)

49

700

900

330

55

Twin Rotary

4 - 2.5

4

1 - 50

Outdoor

2X 9.52 1X 12.7

3X 6.35

5

25

50

10

30

0 to 46

-15 to 24

Outdoor Unit

kW

kW

W/W

W/W

Amps

Amps

kW

kW

Dba at 1m

mm

mm

mm

kg

Qty - mm2

mm2

Ph - Hz

mm

mm

Metre

Metre

Metre

Metre

Meter

Degree C

Degree C

Cool

Heat

Cool

Heat

Height

Width

Depth

Gas

Liquid

Cool

Heat

Net Weight

0.0

Inverter

AOTG30LAT4

Yes

8.0 (10.1 Max)

9.6 (12.0 Max)

36

40

9.3 (15.0 Max)

10.1 (15.0 Max)

2.22 (3.56 Max)

2.4 (3.58 Max)

51

830

900

330

68

Twin Rotary

4 - 2.5

4

1 - 50

Outdoor

2X 9.52 2x 12.7

4X 6.35

5

25

70

10

50

0 to 46

-10 to 24

COMPACT CASSETTE INDOOR UNITS

Туре				BULKHEAD	BULKHEAD	BULKHEAD	CASSETTE	CASSETTE	CASSETTE
MODEL No.			Indoor Unit	ARTG09LLTA [M]	ARTG12LLTA [M]	ARTG18LLTA [M]	AUTG09LVLA [M]	AUTG12LVLA [M]	AUTG18LVLA [M]
Capacity Class			kW	2.5	3.5	5.0	2.5	3.5	5.0
Fan Speeds				4	4	4	4	4	4
Air Circulation		High	l/s	167	181	261	150	169	208
		Quiet	Dba at 1m	24	24	29	27	28	30
Indoor Sound		Low	Dba at 1m	25	27	31	29	31	37
Pressure Level		Medium	Dba at 1m	26	28	32	32	33	40
		High	Dba at 1m	28	29	33	34	37	44
		Height	mm	198	198	198	245	245	245
Dimensions	LU	Width	mm	700	700	900	570	570	570
and Weights	1.0	Depth	mm	620	620	620	570	570	570
		Net Weight	kg	19	19	23	15	15	15
Interconnect Cab	les -	Size	Qty - mm2	4 - 2.5	4 - 2.5	4 - 2.5	4 - 2.5	4 - 2.5	4 - 2.5
Power Supply Atta	achn	nent		To Outdoor Unit					
Connection		Gas	mm	9.52	9.52	12.7	9.52	9.52	12.7
Pipe Sizes		Liquid	mm	6.35	6.35	6.35	6.35	6.35	6.35

OUTDOOR UNITS

Type MODEL No. Outdoor Unit

Reverse Cvcle

E.E.R Cool

C.O.P Heat

Input Power

Dimensions

and Weights

Compressor Type

Phase - Frequency

Interconnect Cables - Size

Power Supply Attachment

Connection Pipe Sizes

Minimum Pipe Length

Maximum Pipe Height

Pre Charge Length

Recommended Min. Power Cable

Maximum Pipe Length (Per Indoor)

Maximum Pipe Length (Total)

Outdoor Operating Temperature

Cooling Capacities

Heating Capacities

Running Current

Outdoor Sound Pressure Level

INDOOR UNITS COMBINATION POSSIBILITIES

The multi system is a technically advanced heat pump system. To keep design possibilities simple we have compiled tables of the only permissible configurations, please refer to the table that will suit your situation. The total capacity of the system is limited to the outdoor unit's capacity and its ability to deliver to the combined indoor units.

AOTG30LAT4 Combinations

AOTG24LAT3 Combinations

No. of Combos	BTU Total	Room 1	Room 2	Room 3
1	14	7	7	-
2	16	7	9	-
3	19	7	12	-
4	25	7	18	-
5	18	9	9	-
6	21	9	12	-
7	27	9	18	-
8	24	12	12	-
9	30	12	18	-
10	21	7	7	7
11	23	7	7	9
12	26	7	7	12
13	25	7	9	9
14	28	7	9	12
15	31	7	12	12
16	27	9	9	9
17	30	9	9	12
18	33	9	12	12
19	36	12	12	12

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 between energy used and hea 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 efficie 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 hun whisper.

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

EXPLANATION OF FEATURES

Moisture Removal ())The computer effectively dehumidifies Moisture the air.

Up / Down Swing Louvers 1 The up / down flaps automatically swing Up/Down



 \rightarrow The right / left flaps automatically swing Left/Right in either direction.

Double Swing Automatic ÷ Complex swing action of flaps enables automatically to swing both horizontal



The position of the w is set automatically to match the operating mode. It is also possible to adjust the louvers using the remote control

Fujitsu General proud sponsors of:

Room 3	No. of Combos	BTU total		Room 2		Room 4
-	1	32	7	7	18	-
-	2	38	7	7	24	-
-	3	28	7	9	12	-
-	4	34	7	9	18	-
-	5	40	7	9	24	-
-	6	31	7	12	12	-
-	7	37	7	12	18	-
-	8	43	7	12	24	-
-	9	43	7	18	18	-
7	10	49	7	18	24	-
9	11	27	9	9	9	-
12	12	30	9	9	12	-
9	13	36	9	9	18	-
12	14	42	9	9	24	-
12	15	33	9	12	12	-
9	16	39	9	12	18	-
12	17	45	9	12	24	-
12	18	45	9	18	18	-
12	19	36	12	12	12	-
	20	42	12	12	18	-
-	21	48	12	12	24	-
)	22	48	12	18	18	-
	23	28	7	7	7	7
	24	30	7	7	7	9
	25	33	7	7	7	12
	26	39	7	7	7	18
at	27	32	7	7	9	9
u	28	35	7	7	9	12
u	29	41	7	7	9	18
	30	38	7	7	12	12
nev	31	44	7	7	12	18
ency	32	34	7	9	9	9
	33	37	7	9	9	12
	34	43	7	9	9	18
1	35	40	7	9	12	12
	36	46	7	9	12	18
nan	37 38	43 49	7 7	12	12	12
				12	12	18
	39 40	36	9	9	9	9
)		39	9	9	9	12
	41 *1 42	45	9	9 9	9 12	18 12
	42 43 *2	42	9			
	43 ^2	48	9	9	12	18
		45	9	12	12	12
	45	48	12	12	12	12

These tables represent the only allowable indoor unit combinations for the Multi outdoor models AOTG24LAT3 and AOTG30LAT4.

No other combinations are permissible. Correct operation cannot be guaranteed if connected as a configuration not shown on these tables.

Like the J Series product, the multi is a technically advanced heat pump system and because of this we strongly recommend that your specialist consults the technical manual for actual output capacities of varying combinations and ambient conditions.

Combinations that are not permissible

*1 ARTG09L + ARTG09L + ARTG09L + ASTG18L

*2 ARTG09L + ARTG09L + ARTG12L + ASTG18L

KEY

	·		
7	=	7,000	BTU / hr model
9	=	9,000	BTU / hr model
12	=	12,000	BTU / hr model
18	=	18,000	BTU / hr model
24	=	24,000	BTU / hr model

INSTALLATION PRECAUTIONS

AOTG24LAT3

Connectable capacity range: 14,000 - 36,000 BTU At least two indoor units must be connected

ASTG24LFCA

Cannot be connected to this outdoor model AOTG30LAT4

AF

Connectable capacity range: 27,000 - 49,000 BTU At least three indoor units totalling 32,000 BTUs must be connected



R

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



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 Auto

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

Sleep Timer $\langle n \rangle$

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

Habitat

for Humanity New Zealand

(1)	Program Timer
rogram	This digital time
	one of four optio
	ON, OFF, ON →
	011 055 T

ON-OFF Timer (Λ) On-Off operate once







temperature for two time spans and for each day of the week. Connectable Distributing Duct



Connect fresh air via optional UTZ-VXAA.



Long-Life Ion Deodorisation Filter

Apple-Catechin Filter

Fresh Air Intake S#

Fresh air can be taken in by a fan which can be connected using UTD-ECS5A (optional parts).













All products specified in this brochure comply with the Australian Communications Authority's (ACA) with the Australian unications Authority's (ACA) ments for Electromagnetic tibility (EMC). req N807



Printed with 100% vegetable based inks. 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.

OFF, or OFF \rightarrow ON ON-OFF timer can be set to Different on-off times can be set

allows selection of



Weekly + Setback timer can set



Connectable Fresh Air Duct I)