FUJITSU Ducted









Bulkhead type - compact design allows them to be installed into the cavity of your ceiling, at floor level or in a wall.

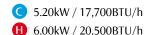




Quiet mode - just 27dB



ARTA18LALU Hi-COP 3.61 (W/W)





Simple Controller (optional)



Temperature sensor (optional)

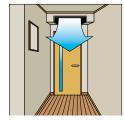


Wired type (with weekly/ setback timer

■ Universal design indoor unit

The ducted bulkhead unit can be mounted vertically or horizontally. This makes them ideal for architecturally designed spaces.

Ceiling concealed





Floor concealed





■ Static pressure mode setting (ARTA18LALU).

As the bulkhead unit is very versatile, the static pressure can be adjusted to suit the application. Four settings are available up to a maximum of 90pa.

■ Low ambient outdoor temperature design.

All Fujitsu ducted units are capable of cooling, even when the outdoor temperature is -10°C. This makes them ideal for those spaces needing cooling all year round – such as gyms, restaurants and sunrooms.

Fujitsu ducted inverter systems also effectively heat even when the outside ambient temperature is at -15°C.

■ 5+ Stars Energy Rating.

The brilliant energy ratings are achieved with DC fan motors throughout, and a multi-speed inverter controlled DC compressor in the outdoor unit.

Auto restart.

In the event of a power failure all Fujitsu Inverter Ducted models will restart themselves from the last settings of the wall controller.

These low-profile models are ideal for narrow ceiling spaces – delivering high efficiency quickly and effectively.











FOR ARTA24LATU

FOR ARTA 36/45LATU

ARTA24LATU Hi-COP 3.61

7.10kW / 24,200BTU/h

1 8.00kW / 27,300BTU/h

Quiet mode - just 25dB

ARTA36LATU Hi-COP 3.71

C 10.00kW / 34,100BTU/h

III 11.20kW / 38,200BTU/h

Quiet mode - just 29dB

ARTA45LATU Hi-COP 3.71

C 12.50kW / 42,700BTU/h

H 14.00kW / 47,800BTU/h

Quiet mode - just 29dB

Easy installation.

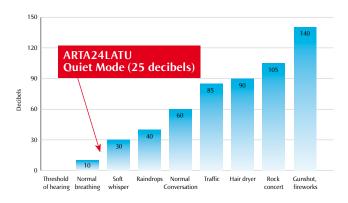
Main work settings can be done easily from the remote controllers at installation, these include:

- · Fan mode settings
- Auto restart
- Temperature adjustment when cooling/heating

Heating efficiency or COP.

COP stands for Coefficient Of Performance. This is the relationship of energy used, versus heat delivered. For example 1kW of energy supplied to the ARTA24LATU will produce 3.61kW of heat. Check COP when purchasing a heat pump – you will find it difficult to beat Fujitsu for efficiency.

Quiet Mode.

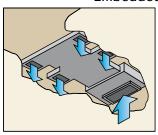


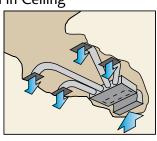
■ Static pressure mode setting (ARTA24LATU).

Four settings are available to adjust the static pressure of the indoor unit. This will ensure that the system heats and cools as efficiently and quietly as possible.

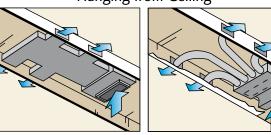
■ Installation styles.

Embedded in Ceiling





Hanging from Ceiling



Reduced chassis size and lightweight makes these Hi Static models easy to install, without compromising performance.









ARTC30L Hi-COP 3.54

8.80kW / 30,000BTU/h 9.20kW / 31,400BTU/h ARTC36L Hi-COP 3.57

C 10.00kW / 34,100BTU/h

(II) 10.00kW / 34,100BTU/h

ARTC45L Hi-COP 3.64

C 12.50kW / 42,700BTU/h

II 14.00kW / 47,800BTU/h

ARTC54L Hi-COP 3.33

C 14.50kW / 49,500BTU/h

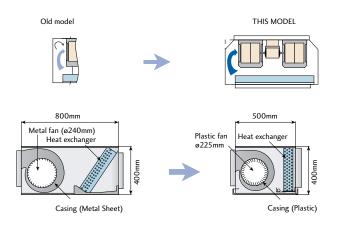
16.00kW / 54,600BTU/h

Operational sound (low noise) levels.

Increased airflow with reduced noise level to 45dB(A) achieved by chamfering the chassis to create uniform internal air pressure.

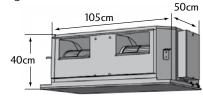
Large airflow volume of 2,500 cubic meters is achieved by design of a larger fan (At 100Pa).

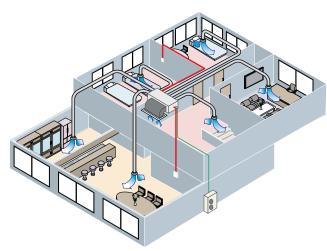
Plus, plastic fan housing, sirocco fan blades and three selectable fan speeds reduction combine to deliver low noise emissions.



Easy installation.

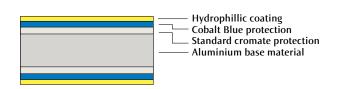
The compact design of the indoor unit is designed for easy installation into new and existing spaces. In most cases, the unit will fit through an existing manhole or return air inlet in the ceiling.





■ Cobalt blue heat exchanger.

The outdoor unit fins are coated with a blue corrosion resistant material to enhance durability and extend performance life of your heat pump. Available on all Fujitsu Inverter Ducted units except the ARTA18L and the ARTA24L.

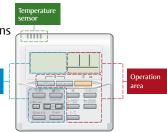


Controller features.

■ Easy-to-understand operation.

Variable time control.

The operation / display sections are zoned according to time and operation, enabling variable programming to match application.



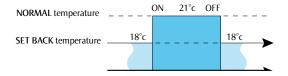
■ High performance and compact size.

Three functions are combined in one unit.



Temperature set back timer.

Use this timer function to change the set temperature in the on times set for each day of the week. This can only be set together with other programmed timer settings.



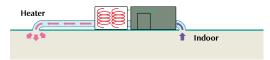
Control port option features.

Advanced features. (UTD-ECS5A Required)

1. Fresh air output port. External fresh air fans can be connected to run in conjunction with the fan motor of the indoor unit. Ideal for homes without ventilation system.



2. Electrical heater output port. An External Electrical heater can be set to operate in conjunction with the heating cycle.



3. External input port. Start/stop of the air conditioner can be controlled from external equipment.

■ Room temperature sensor selection.

- Wired remote controller has a sensor.
- User can select between remote controller sensor and/or return air sensor or remote sensor.



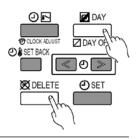
Group control.

One remote controller can control up to 16 air conditioners. All of the air conditioners will be operated with the same settings.



■ Child lock function.

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



■ Memory back up setting.

In the event of a power failure, battery back up of the wall controller. (To be set on the wall controller by the installer).

■ Simplified wired remote controller. (Optional)

This controller can be used as an optional slave controller for dual control. It offers easier operation and backlit display.



■ Dual remote controllers. (Optional)

An additional controller can be added. Either remote controller can control the air conditioner. However, the timer functions cannot be used at the slave unit.

EXPLANATION OF FEATURES



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 \rightarrow OFF, or OFF \rightarrow ON.



ON-OFF Timer

ON-OFF timer can be set to operate once.



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 by means of a distribution duct.



Connectable Fresh Air Duct

Duct connection port hole opening. Fresh air can be introduced through this opening.



Fresh air intake

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



Control Por

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

UTD-EC55A* (optional parts)

* Selected ducted units only.



Top Energy Saver AwardFor the most energy efficient Star Rated Products.







SPECIFICATIONS			Bulkhead	Low Profile	Low Profile	Low Profile	Ducted	Ducted	Ducted	Ducted
Type			Lo Static	Lo Static	Lo Static	Lo Static	Hi Static	Hi Static	Hi Static	Hi Static
MODEL No. Indoor Unit Outdoor Unit		ARTA18LALU	ARTA24LATU	ARTA36LATU	ARTA45LATU	ARTC30LUAK	ARTC36LATU	ARTC45LUAK	ARTC54LATU	
			AOTA18LACL	AOTA24LACL	AOTA36LATL	AOTA45LATL	AOT30LMBDL	AOT36LMADL	AOT45LJBYL	AOT54LJBYL
Reverse Cycle			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		Watts	5,200	7,100	10,000	12,500	8,800	10,000	12,500	14,500
Cooling Capacties BTU/Hr		17,700	24,200	34,100	42,700	30,000	34,100	42,700	49,500	
Watts			900 - 5,900	900 - 8,000	3,800 - 11,200	4,000 - 14,000	2,700 - 9,800	2,700 - 10,500	3,600 - 14,000	3,600 - 15,500
Cooling Range		BTU/Hr	3,100 - 20,100	3,100 - 27,300	13,000 - 38,200	13,700 - 47,800	9,200 - 33,500	9,200 - 36,000	12,300 - 47,800	12,300 - 52,900
Watts			6,000	8,000	11,200	14,000	9,200	10,000	14,000	16,000
Heating Capacities BTU/Hr		20,490	27,300	38,200	47,800	31,400	34,100	47,800	54,600	
		Watts	900 - 7,500	900 - 9,100	4,000 - 14,000	4,200 - 16,200	3,000 - 11,000	3,000 - 12,100	4,700 - 16,000	4,700 - 18,000
Heating Range		BTU/Hr	3,100 - 25,600	3,100 - 31,000	13,700 - 47,800	14,300 - 55,300	10,200 - 37,600	10,200 - 41,300	47,800 - 54,600	16,000 - 61,500
Cool		610/111	5	4.5	13,700 - 47,800	14,300 - 33,300	3	2.5	3.5	3
Energy Star Rating	Heat		5	5	5.5	5.5	5	5	5	4
E.E.R Cool	пеас	W/W	3.21	3.11	3.21	3.21	2.67	2.5	2.87	2.69
C.O.P Heat		W/W	3.61	3.61	3.71	3.66	3.54	3.57	3.64	3.33
C.O.P Heat	Cool									
Running Current	Cool	Amps	6.8	9.3 (11.5 Max)	13 (19 Max)	16.3 (20 Max)	13.8 (15.5 Max)	16.7 (17.6 Max)	18.1 (21.7 Max)	23.5 (25.3 Max)
	Heat	Amps	7	9.3 (12.2 Max)	12.7 (19 Max)	16.1 (20 Max)	10.7 (15.9 Max)	11.7 (17.6 Max)	16 (20.1 Max)	19.8 (25.3 Max)
Input Power	Cool	Watts	1,620	2,280 (2,740 Max)	3,110 (4,540 Max)	3,890 (4,780 Max)			4,350 (1,700 - 5,200)	
	Heat	Watts	1,660	2,210 (2,910 Max)	3,020 (4,540 Max)	3,830 (4,780 Max)			3,800 (1,500 - 4,800)	
		L/Hr	2	2.5	3	3.5	3	3	2	3
Fan Speeds			4	4	4	4	3	3	3	3
Air Circulation		l/s	227	305	560	625	700	700	980	980
	Quiet	Dba at 1m	27	25	29	29	N/A	N/A	N/A	N/A
Indoor Sound Level	Low	Dba at 1m	29	27	32	33	36	36	42	42
indoor Journa Level	Med	Dba at 1m	31	29	37	38	39	39	45	45
High		Dba at 1m	33	31	42	44	45	45	49	49
Outdoor Sound Level Dba at		Dba at 1m	50	53	55	56	54	54	53	53
Outdoor Sound Power Level		Dba	65	68	69	70	65	65	65	69
Dimensions	I.U Height	mm	217	270	270	270	400	400	400	400
	Width	mm	953	1135	1135	1135	1050	1050	1050	1050
	Depth	mm	595	700	700	700	500	500	500	500
	Net Weight	kg	23	38	41	41	45	45	50	50
and	O.U Height	mm	578	578	1290	1290	900	900	1290	1290
Weights	Width	mm	790	790	900	900	900	900	900	900
	Depth	mm	300	315	330	330	350	350	330	330
	Net Weight	kg	40	44	98	98	70	70	105	105
Compressor Type		5	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary	DC Scroll	DC Scroll
Supply		mm	600 X 150	4 X 205 dia	4 X 205 dia	4 X 205 dia	850 X 295	850 X 295	850 X 295	850 X 295
Ductwork Plenum size Ex Static Pressure Return		mm	811 X 177	1015 X240	1015 X 240	1015 X 240	865 X 325	865 X 325	865 X 325	865 X 325
		Pa	0 to 90	30 to 150	30 to 150	30 to 150	200	200	100 - 250	100 - 250
		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
Recommended Min. Power Cable mm2			4-1.5	4-1.5	6	6	4-1.5	6	6	6
Phase - Frequency Ph - Hz			1 - 50	1 - 50	1 - 50	1 - 50	1 - 50	1 - 50	1 - 50	1 - 50
Power Supply Attachment										
		Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	
		Volts	230	230	230	230	230	230	230	230
Refrigerant Type			R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a
Connection Pipe Siz	Zes Gas	mm	12.7	15.88	15.88	15.88	15.88	15.88	15.88	15.88
Liquid		mm	6.35	6.35	9.52	9.52	9.52	9.52	9.52	9.52
Minimum Pipe Len	,	Metre	5	5	5	5	5	5	5	5
Maximum Pipe Len	-	Metre	25	30	50	50	30	30	70	70
. 3		Metre	15	20	30	30	20	20	30	30
Pre Charged Length Meter		Meter	15	15	20	20	10	10	20	20
Pipe Connection Method			Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare
Outdoor Operating Cool I		Degree C	-10 to 46	-10 to 46	-15 to 46	-15 to 46	0 to 43	0 to 43	-15 to 43	-15 to 43
Temperature	Heat	Degree C	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-10 to 21	-10 to 21	-15 to 24	-15 to 24
Front										

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!

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

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

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

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.



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Hamamatsu Fuiitsu General Ltd.









