

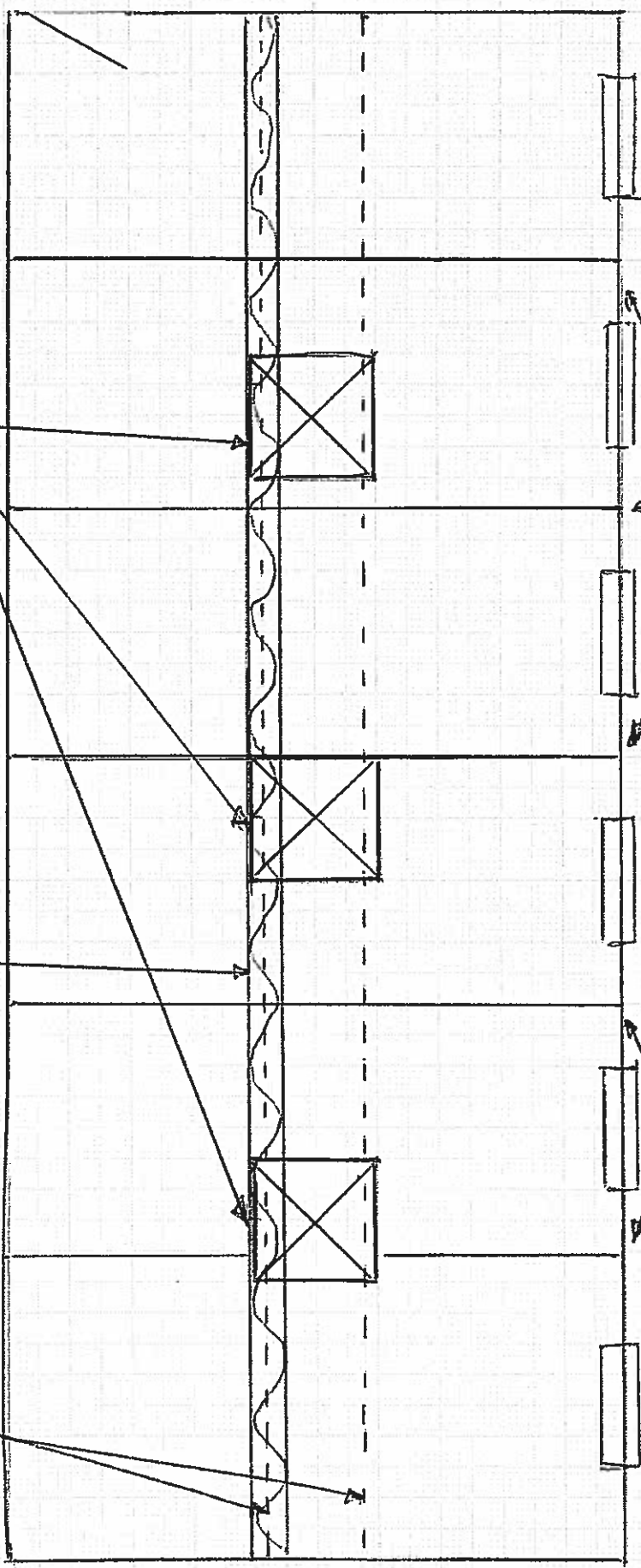
NEW CASSETTE
UNITS
SUPPORTED
BY UNISTRUT.

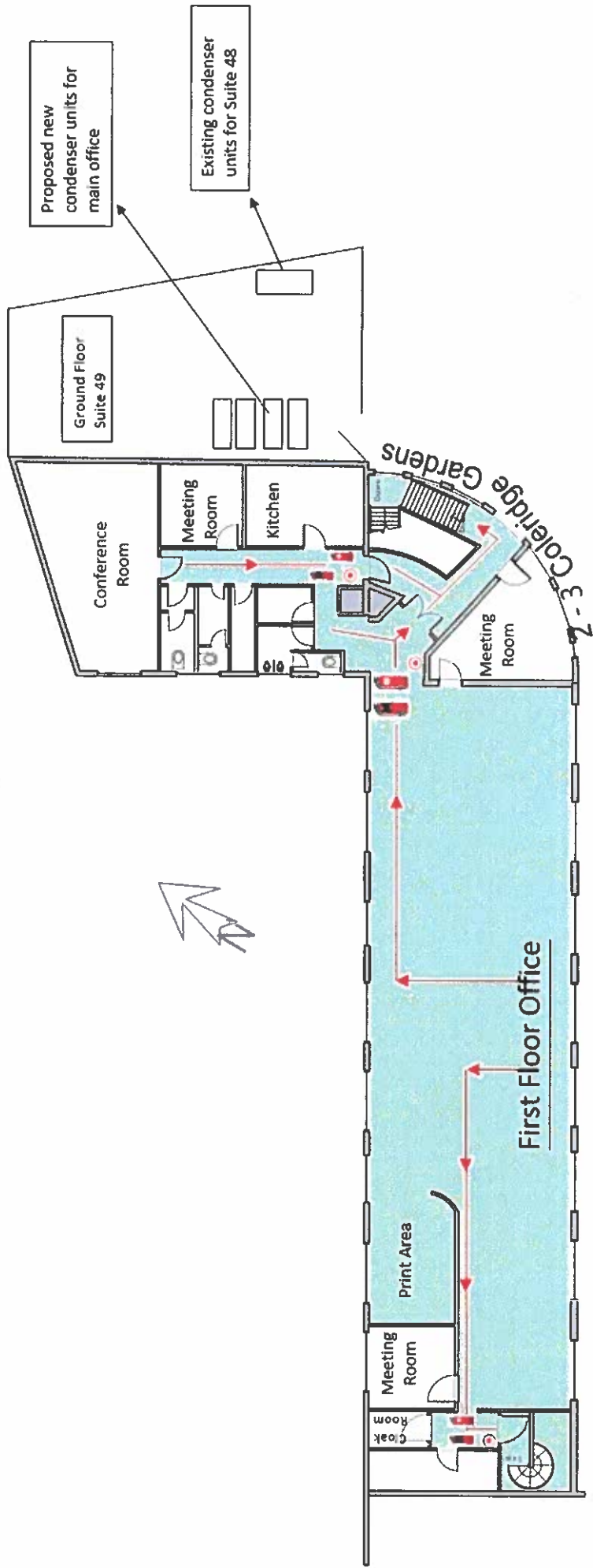
CABLETRAY
FIXED TO
UNISTRUT.

4x4 UNISTRUT
FIXED TO
EXISTING STEELS.

EXISTING
STEELS

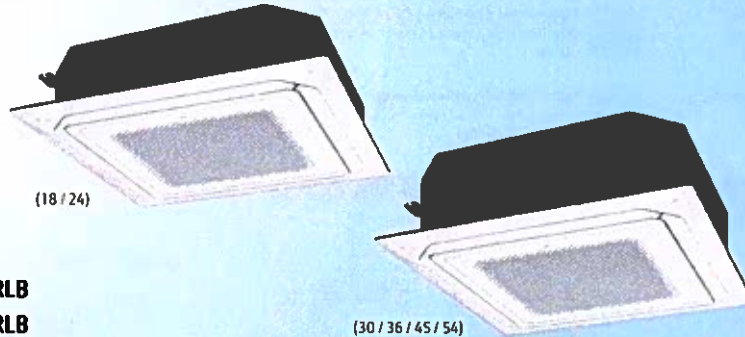
EXISTING
STEELS







18 / 24 / 30 / 36 models



Touch Panel Wired RC

Indoor Unit

- AUXG18LRLB AUXG24LRLB
- AUXG30LRLB AUXG36LRLB
- AUXG45LRLB AUXG54LRLB

Grille

UTG-UKYA-W Common to all models

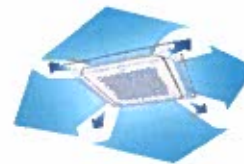
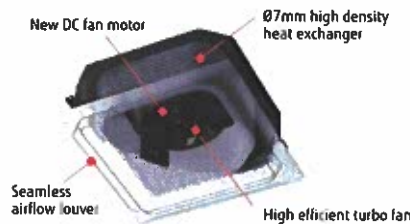


Circular Flow Cassette Range

Feature

Uniform air distribution by the seamless air opening

In this new model, the gaps between each airflow openings are removed, which enables to distribute wider and uniform airflow to room.



Feature

Individual louver control

Each louver can be set individually by Touch Panel Controller to enjoy the comfort of different directional airflows according to various room layouts.

*Touch Panel Wired RC (UTY-RNRYZ1) only



Scenario



Comfortable air conditioning by preventing direct blowing of cold air and by providing swinging air flow simultaneously



Efficient air conditioning in accordance with the room layout

Feature

Human Sensor for Energy Saving (Option)

- Human sensor
- 2 modes can be selected.



Power is saved while no one is around



Operation is stopped while no one is around

*Touch Panel Wired RC (UTY-RNRYZ1) only



Feature

Easy operation by touch panel screen

- Easy finger touch operation with backlight LCD panel
- Support 12 languages
English, German, French, Spanish, Italian, Portuguese, Dutch, Polish, Greek, Russian, Turkish, Chinese



Optional parts

Touch Panel Wired Remote Controller (Two wires) : UTY-RNRYZ1 Std
High Grade Wired Remote Controller (Three wires) : UTY-RVNYM
Standard Wired Remote Controller (Two wires) : UTY-RLRY
Simple Remote Controller (Three wires) : UTY-RSNYM

IR Receiver Kit : UTY-LBTYC
Human Sensor Kit : UTY-SHZXC
Communication Kit : UTY-XCSX
Communication kit bracket : UTZ-GXRA

External Connect Kit : UTY-XWZKG
Fresh Air Intake Kit : UTZ-VXRA

Feature explanation



Economy mode: The thermostat setting automatically changes according to the temperature to avoid unnecessary cooling and heating.



Room temperature set point limitation: The minimum and maximum temperature range can be set giving further energy saving while considering the comfort of the occupants.



Set temperature auto return: The setting temperature automatically returns to the previously set temperature.



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



Up / down swing flaps: The up / down flaps automatically swing up and down.



Automatic fan speed: The micro-computer automatically adjusts the airflow 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 power supply is restored.



Connectable fresh air duct: Outside air can be introduced by attaching field supplied duct to fresh air knockout and optional part.



Connectable distributing duct: Systems are capable of attaching field-supplied branch ducts distributing the airflow.



Individual airflow direction control: Each louver of 4-way Cassette type can be controlled individually and provides comfortable airflow.



Auto off timer: Automatically stops operation when a fixed time has elapsed from the start of operation.



Weekly timer: Different ON-OFF times can be set for each day.



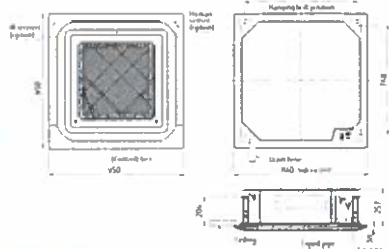
Filter sign: Indicates the filter cleaning period by lamp.

Dimensions

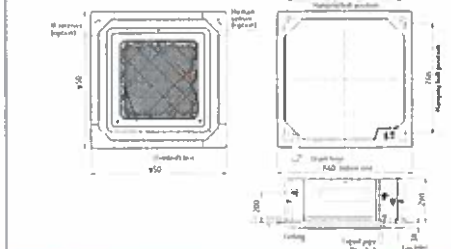
(Unit : mm)



Indoor unit : AUXG18LRB / AUXG24LRB



AUXG30LRB / AUXG36LRB / AUXG45LRB / AUXG54LRB



Specifications

(TENTATIVE)

Model Number	Indoor	AUXG18LRB	AUXG24LRB	AUXG30LRB	AUXG36LRB	AUXG45LRB	AUXG54LRB
	Outdoor	AOYG18LBCA	AOYG24LBCA	AOYG30LBTB	AOYG36LBTB	AOYG45LBTB	AOYG54LBTB
Nominal Capacity (kW)	Cooling	5.2 (0.9-6.5)	6.8 (0.9-8.0)	8.5 (2.8-10.0)	9.5 (2.8-11.2)	12.5 (4.0-14.0)	13.3 (4.5-14.5)
	Heating	6.0 (0.9-8.0)	7.8 (0.9-9.1)	10.0 (2.7-11.2)	10.8 (2.7-12.7)	14.0 (4.2-16.2)	15.8 (4.7-16.5)
UK Total / Sensible Cooling*		6.0 / 4.54	6.99 / 5.2	10.15 / 7.32	11.79 / 8.49	13.06 / 9.67	13.39 / 9.82
Power Consumption (kW)	Cooling	1.42	2.16	2.56	2.96	3.85	4.38
	Heating	1.50	2.18	2.77	2.91	3.73	4.58
EER / COP (Nominal Conditions)		3.66 / 4.00	3.15 / 3.58	3.32 / 3.61	3.21 / 3.71	3.25 / 3.75	3.04 / 3.45
Pdesign (kW) @ -10°C	Cooling	5.2	6.8	8.5	9.5	-	-
	Heating	4.3	6.0	8.0	8.7	-	-
SEER	Cooling	7.05	6.6	6.7	6.4	-	-
SCOP	Heating (Average)	4.4	4.2	4.3	4.3	-	-
Energy Efficiency Class	Cooling	A+	A++	A++	A++	-	-
	Heating (Average)	A+	A+	A+	A+	-	-
Annual Energy Consumption (kWh/a)	Cooling	258	361	444	519	-	-
	Heating	1367	1999	2604	2833	-	-
Moisture Removal	l/h	2.2	2.7	2.5	3.3	4.5	5.0
Dimensions (HxWxD) mm	Inner	246x840x840	246x840x840	288x840x840	288x840x840	288x840x840	288x840x840
	Outer	620x790x290	620x790x290	830x900x330	830x900x330	1290x900x330	1290x900x330
Net Weight (kg)	Inner	24	24	26	26	29	29
	Outer	41	41	61	61	86	86
Room Air Circulation (high) m ³ /h	Inner	1050	1150	1600	1900	2000	2100
	Outer	1900	2460	3600	3800	6750	6750
Power Supply	V-PH-Hz	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50
Power Supply To	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Running Current (A)	Cooling	10.0	13.5	17.0	20.0	20.5	21.5
	Heating	13.5	18.5	17.0	20.0	20.5	21.5
Starting current	A	16	20	20	25	25	25
Suggested MCB/Fuse	A	3 + E	3 + E	3 + E	3 + E	3 + E	3 + E
Interconnecting Cable	Wired	Wired	Wired	Wired	Wired	Wired	Wired
Remote Control type (Supplied with grill)							
Sound Pressure (dB(A) Cooling)	Indoor Gr/LM/H	28/31/32/33	29/32/33/35	33/36/38/40	34/38/41/44	35/39/42/46	36/40/43/47
	Outdoor H	51	55	53	54	55	55
Sound Power (dB(A) Cooling)	Indoor H	4.7	4.9	5.4	5.8	6.0	6.1
	Outdoor H	6.4	6.8	6.7	6.8	6.8	6.9
Max Pipe Length	m	30	30	50	50	50	50
Max Height Difference	m	20	20	30	30	30	30
Refrigerant Charge	m	15	15	20	20	20	20
Additional Refrigerant Charge	g/m	20	20	40	40	40	40
Pipe Size (inches)	Gas	1/2	5/8	5/8	5/8	5/8	5/8
	Liquid	1/4	1/4	3/8	3/8	3/8	3/8
Operating Range °CDB	Cooling	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Grill (to be ordered separately)		UTG-UKYA-W	UTG-UKYA-W	UTG-UKYA-W	UTG-UKYA-W	UTG-UKYA-W	UTG-UKYA-W
Cassette Grill Dimensions (HxWxD)	mm	53x950x950	53x950x950	53x950x950	53x950x950	53x950x950	53x950x950

Note

*Cooling/heating capacities are based on the following conditions.

Cooling	Indoor temperature 23°CDB / 16°CWB Outdoor temperature 30°C
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- Performance test is in accordance with EN14511
- Seasonal efficiency test is in accordance with EN14825
- Sound power test is in accordance with EN12102



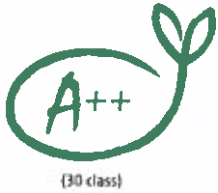
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ASYG30LMTA ASYG36LMTA



Option



Wall Mounted LMTA Range

Feature

High Energy Efficiency

Large Heat Exchanger
Heat Exchanger volume
37% UP!



Feature

Human Sensor

The sensor detects the movement of people in the room and optimises the power consumption of the unit by automatically adjusting the operating mode.



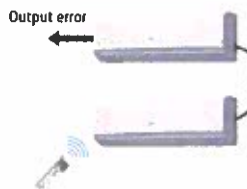
Feature

Corresponding to the server room

1 Operation

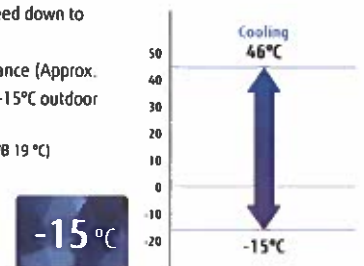
Cooling operation can be performed even in the low outdoor temperature and low humidity environment. In addition, the following interlock operation is possible by connecting two indoor units with a cable.

- Rotating operation (Two units operate alternately)
- Backup operation (In case one unit breaks down, the other unit starts operation automatically.)
- Support operation (Both units operate simultaneously when the loaded capacity is not enough with one unit)



2 Low ambient operation

- Stable cooling operation is guaranteed down to -15°C outdoor temperature.
- Keep high sensible cooling performance (Approx. 75% capacity of rated condition) at -15°C outdoor temperature. (Room temperature condition: DB 27 °C WB 19 °C)
- Server room function can be set at site.



Feature

Other functions

- 1 Outdoor unit low noise mode**
The reduction of noise at night can be set by remote controller.
- 2 50m long piping Length**
Long piping length allow to extend to 50m to support installing indoor unit in center of building.
- 3 KNX / Modbus connection**
Cooperation with external BMS is possible. (with option)

Optional parts

NEW

- Wired Remote Controller (Touch panel (two wire)) : UTY-RNRYZ1 + UTY-TWRX
Corresponds to twelve languages. (English, German, French, Spanish, Italian, Portuguese, Dutch, Polish, Greek, Russian, Turkish, Chinese)
- Wired Remote Controller (High grade (three wire)) : UTY-RVNYM + UTY-XWNX
- Wired Remote Controller (two wire) : UTY-RLRY + UTY-TWRX
- Simple Remote Controller (three wire) : UTY-RSNYM + UTY-XWNX
- External input and output PCB: UTY-XCSXZ1 + UTZ-GXXB
- External Connect Kit: UTY-XWZX

Feature explanation



Human sensor: Human sensor detects the movement of people in the room and judges whether the energy saving operation.



Economy mode: Thermostat setting automatically changes according to the temperature to avoid unnecessary cooling and heating.



Powerful mode: Operation at maximum air flow and compressor speed, and quickly makes the room comfortable.



Server room operation: Interlock operation is possible by connecting 2 indoor units even in the low temperature.



Powerful mode: Operation at maximum air flow and compressor speed, and quickly makes the room comfortable.



Low noise mode: Sound noise level of outdoor unit can be selected.



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



Double swing automatic: Complex swing action of flaps enables automatically to swing both horizontal and vertical directions.



Automatic fan speed: The micro-computer automatically adjusts the airflow 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 power supply is restored.



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 → OFF or OFF → ON.



Weekly timer: Different ON-OFF times can be set for each day.



Filter sign: Indicates the filter cleaning period by lamp.



Ion deodorization filter: The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultrafine-particle ceramic.



Apple-catechin filter: The Apple-catechin filter uses static electricity to clean fine particles and dust in the air.



Washable panel: Since the front panel is easy to remove, maintenance is also easy.



Blue Fin

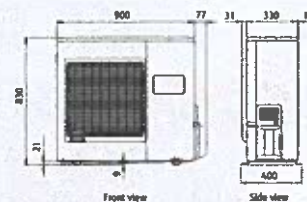
Dimensions

(Unit : mm)

Indoor unit : ASYG30LMTA / ASYG36LMTA



Outdoor unit : AOYG30LMTA / AOYG36LMTA



Specifications

(TENTATIVE)

	Indoor	ASYG30LMTA AOYG30LMTA	ASYG36LMTA AOYG36LMTA
Nominal Capacity (kW)	Cooling	8.0 (2.9-9.0)	9.4 (2.9-10.0)
UK Total / Sensible Cooling *	Heating	8.8 (2.2-11.0)	10.1 (2.7-11.2)
Power Consumption (kW)	Cooling	7.88 / 5.86	9.00 / 6.63
EER / COP (Nominal Conditions)	Heating	2.33	3.16
Pdesign (kW) @ -10°C	Cooling	2.41	2.96
SEER	Heating	3.43 / 3.65	2.97 / 3.41
SCOP	Cooling	8.0	9.4
Energy Efficiency Class	Heating	6.5	7.1
Annual Energy Consumption (kWh/a)	Cooling	6.35	5.73
Moisture Removal	Heating (Average)	4.15	4.19
Dimensions (HxWxD) mm	Cooling	A++	A+
Net Weight (kg)	Heating (Average)	A+	A+
Room Air Circulation (high) m ³ /h	Cooling	441	575
Power Supply	Heating	2193	2373
Power Supply Va	l/h	2.7	3.7
Running Current (A)	Inner	340x1150x280	340x1150x280
Starting Current	Outer	830x900x330	830x900x330
Suggested MCB/Fuse	Inner	18	18
Interconnecting Cable	Outer	61	61
Remote Control Type	Inner	1380	1380
Sound Pressure (dB(A) Cooling)	Outer	3600	3800
Sound Power (dB(A) Cooling)	V-PH-Hz	230-1-50	230-1-50
Max Pipe Length	Cooling	14.5	19
Max Height Difference	Heating	14.5	19
Refrigerant Charge	A	10.5	13.9
Additional Refrigerant Charge	A	16	20
Pipe Size (inches)	Gas	3 + E	3 + E
Operating Range (OC)	Liquid	Wireless	Wireless
Refrigerant	Indoor Q/L/M/H	31/38/44/50	31/38/44/50
	Outdoor H	52	52
	Indoor H	65	65
	Outdoor H	67	68
	m	50	50
	m	30	30
	m	20	20
	g/m	40	40
	Gas	5/8	5/8
	Liquid	3/8	3/8
	Cooling	-15 to 46	15 to 46
	Heating	-15 to 24	15 to 24
		R410A	R410A

Note

*Cooling/heating capacities are based on the following conditions.

Cooling	Indoor temperature 23°CDB / 16°CWB Outdoor temperature 30°C
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- Performance test is in accordance with EN14511
- Seasonal efficiency test is in accordance with EN14825
- Sound power test is in accordance with EN12102

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*Actual products' colors may be different from the colors shown in this printed material.

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1. SPECIFICATIONS

Type			INVERTER HEATPUMP		
Model name			AO*G30LETL	AO*G36LETL	
Power source			230V ~ 50Hz		
Available voltage range			198-264V ~ 50Hz		
Starting current		A	12.2	13.7	
Fan	Airflow rate	Cooling	m ³ /h	3600	3800
		Heating		3600	3800
	Type x Q'ty		Propeller x 1		
	Motor output		W	100	100
Sound pressure level	Cooling	dB(A)	53	54	
	Heating		55	55	
Sound power level	Cooling	dB(A)	68	69	
	Heating		69	70	
Heat exchanger type	Dimensions (H x W x D)		mm	798 x 900 x 36.4	798 x 900 x 36.4
	Fin pitch			1.30	1.30
	Rows x Stages			2 x 38	2 x 38
	Pipe type		Copper		
	Fin type		Aluminium		
Compressor	Type x Q'ty		Twin Rotary x 1		
	Motor output		W	2100	
Refrigerant	Type (Global Warming Potential)		R410A (1975)		
	Charge	g	2100		
Refrigerant oil	Type		POE (RB68)		
Enclosure	Material		Steel sheet		
	Colour		BEIGE Approximate colour of MUNSELL 10YR 7.5/1.0		
Dimensions (HxWxD)	Net		mm	830 x 900 x 330	
	Gross			970 x 1050 x 445	
Weight	Net		kg	61	
	Gross			68	
Connection pipe	Size	Liquid	mm	Ø 9.52 (Ø 3/8 in.)	
		Gas		Ø 15.88 (Ø 5/8 in.)	
	Method		Flare		
	Pre-charge length			20	
	Max. length		m	50	
	Max. height difference			30	
Operation range	Cooling	°C	-15 to 46		
	Heating		-15 to 24		

Note :

Specifications are based on the following conditions.

Cooling : Indoor temperature of 27 °CDB / 19 °CWB and outdoor temperature of 35 °CDB/24 °CWB.

Heating : Indoor temperature of 20 °CDB / 15 °CWB and outdoor temperature of 7 °CDB/6 °CWB.

Pipe length : 5 m, Height difference : 0 m (Outdoor unit - Indoor unit)

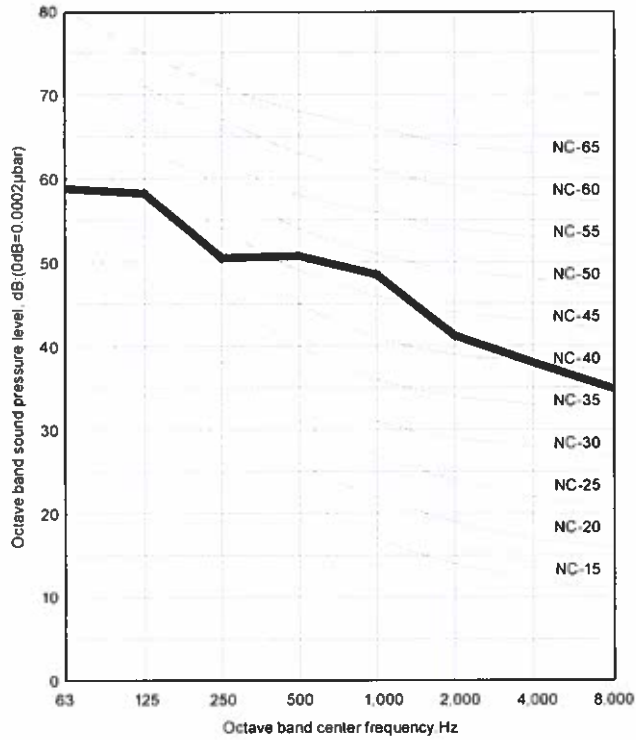
The protective function may work when using it outside the operation range.

8. OPERATION NOISE (SOUND PRESSURE)

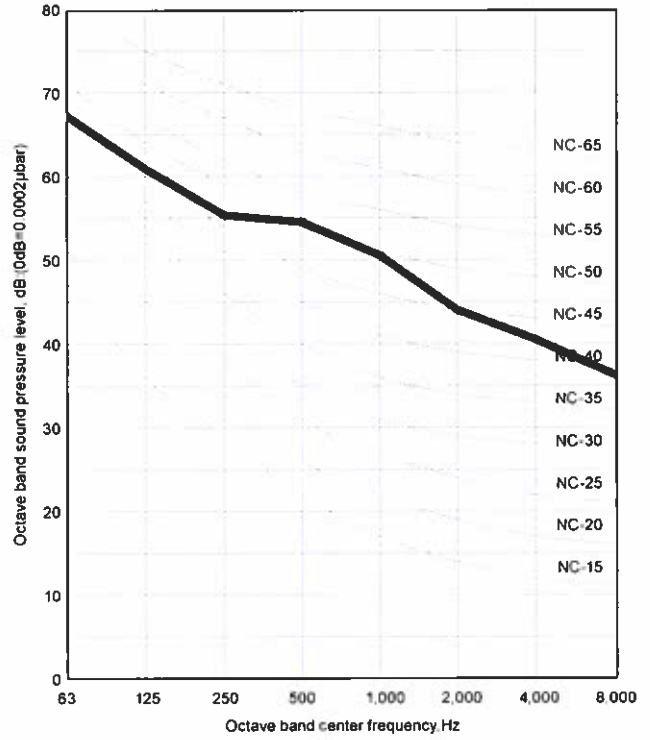
8-1. NOISE LEVEL CURVE

MODEL: AO*G30LETL

COOLING

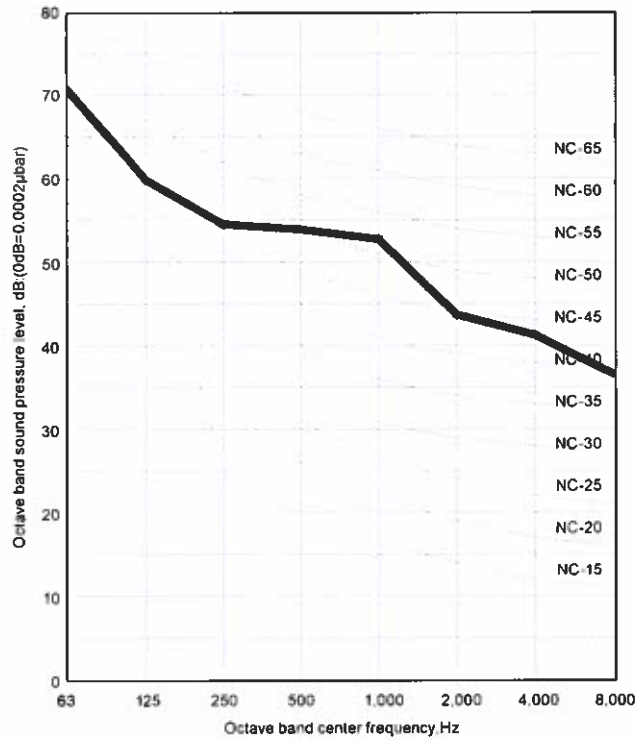


HEATING

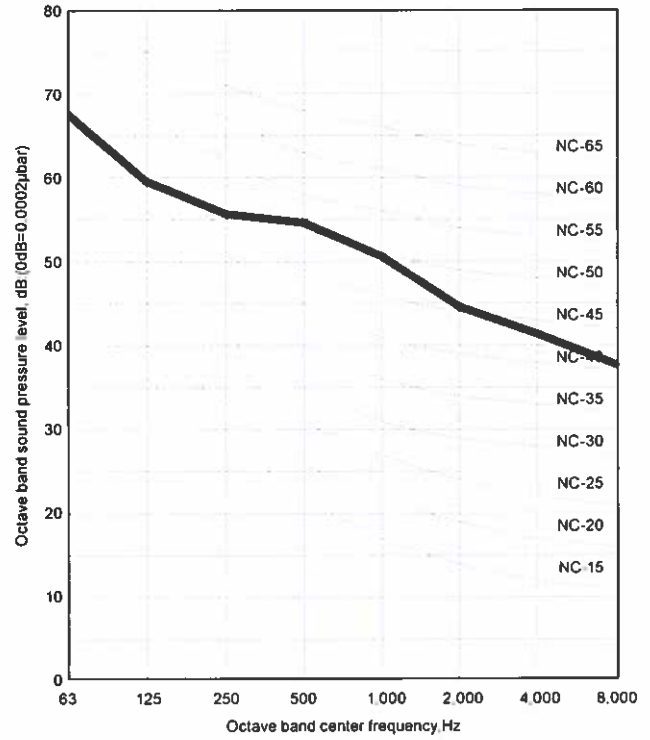


MODEL: AO*G36LETL

COOLING

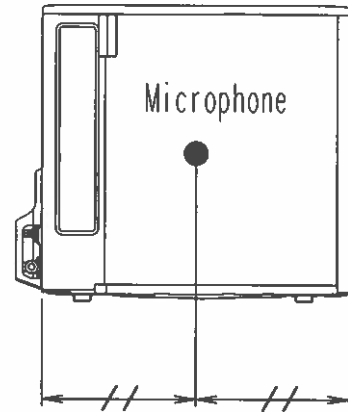
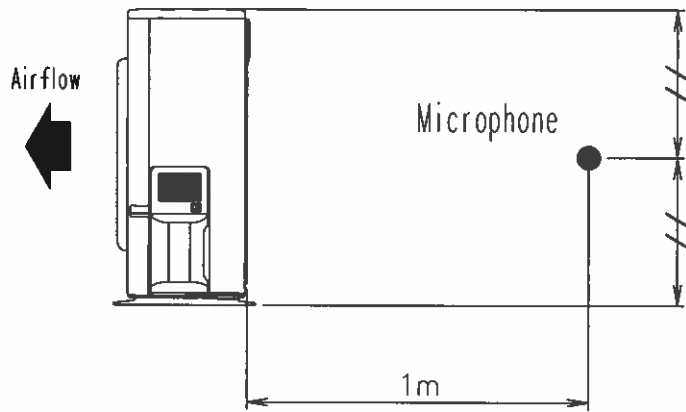


HEATING



8-2. SOUND LEVEL CHECK POINT

OUTDOOR UNIT
AO*G30-36LETL



OUTDOOR UNIT
AO*G30-36LETL

1. SPECIFICATIONS

OUTDOOR UNIT
AO*G18-30LF

OUTDOOR UNIT
AO*G18-30LF

Type				INVERTER HEAT PUMP				
Model name				AO*G18LFC	AO*G24LFCC	AO*G30LFT		
Power source				230 V~ 50 Hz				
Available voltage range				198~264 V				
Starting current			A	7.6	9.7	10.9		
Fan	Airflow rate	Cooling	m ³ /h	2,150	2,460	3,600		
		Heating		2,070	2,340	3,600		
	Type x Q'ty			Propeller fan x 1				
	Motor output			W	49	49	100	
Sound pressure level	Cooling		dB(A)	50	55	53		
	Heating			51	56	55		
Sound power level	Cooling		dB(A)	65	68	68		
	Heating			66	69	71		
Heat exchanger type	Dimensions (H x W x D)		mm	588 x 881 x 36.4	Main : 588 x 881 x 36.4 Sub : 546 x 580 x 18.2	798 x 900 x 36.4		
	Fin pitch			1.3	1.45	1.3		
	Rows x Stages			2 x 28	Main : 2 x 28, Sub : 1 x 26	2 x 38		
	Pipe type				Copper			
	Fin	Type (Material)			Corrugate (Aluminium)			
		Surface treatment			Corrosion resistance		Corrosion resistance (Blue fin)	
Compressor	Type x Q'ty			Rotary x1				
	Motor output			W	900	1,100	2,100	
Refrigerant	Type (Global Warming Potential)			R410A (1975)				
	Charge			g	1,200	1,800	2,100	
Refrigerant oil		Type		FREOLd68SZ	POE (RB68)			
Enclosure	Material			Steel				
	Colour			Beige Approximate colour of MUNSELL 10YR7.5/1.0				
Dimensions (H x W x D)	Net		mm	620 x 790 x 290		830 x 900 x 330		
	Gross			713 x 945 x 395		970 x 1050 x 445		
Weight	Net		kg	41		61		
	Gross			45		68		
Connection pipe	Size	Liquid	mm	Ø 6.35 (Ø 1/4 in.)		Ø 9.52 (Ø 3/8 in.)		
		Gas		Ø 12.7 (Ø 1/2 in.)		Ø 15.88 (Ø 5/8 in.)		
	Method			Flare				
	Pre-charge length			m	15	15	20	
	Max. length			25	30	50		
	Max. height difference			20	20	30		
Operation range	Cooling		°C	-10 to 46				
	Heating			-15 to 24				

NOTES :

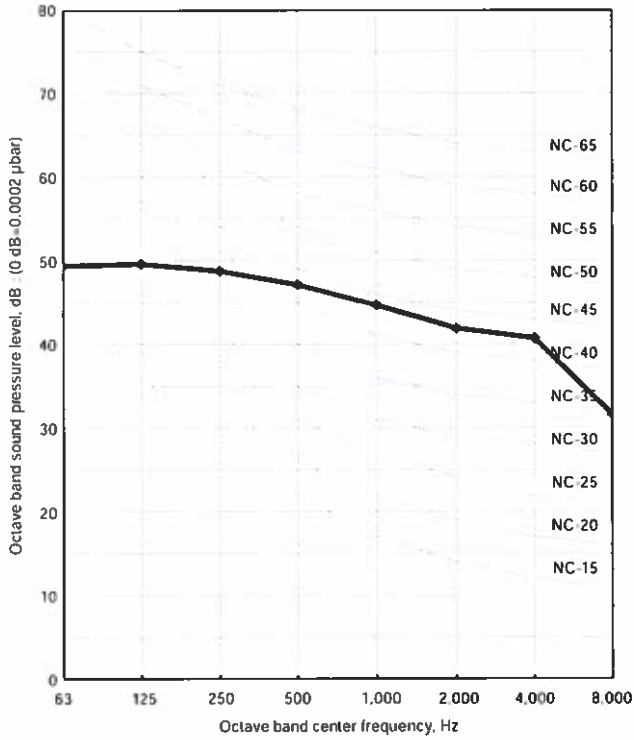
- Specifications are based on the following conditions:
 Cooling : Indoor temperature of 27 °CDB / 19 °CWB and outdoor temperature of 35 °CDB / 24 °CWB
 Heating : Indoor temperature of 20 °CDB / 15 °CWB and outdoor temperature of 7 °CDB / 6 °CWB
 Pipe length : 5 m, Height difference : 0 m (Outdoor unit-Indoor unit)
- The protective function might work when using it in environment out of the temperature range mentioned above.

8. OPERATION NOISE (SOUND PRESSURE)

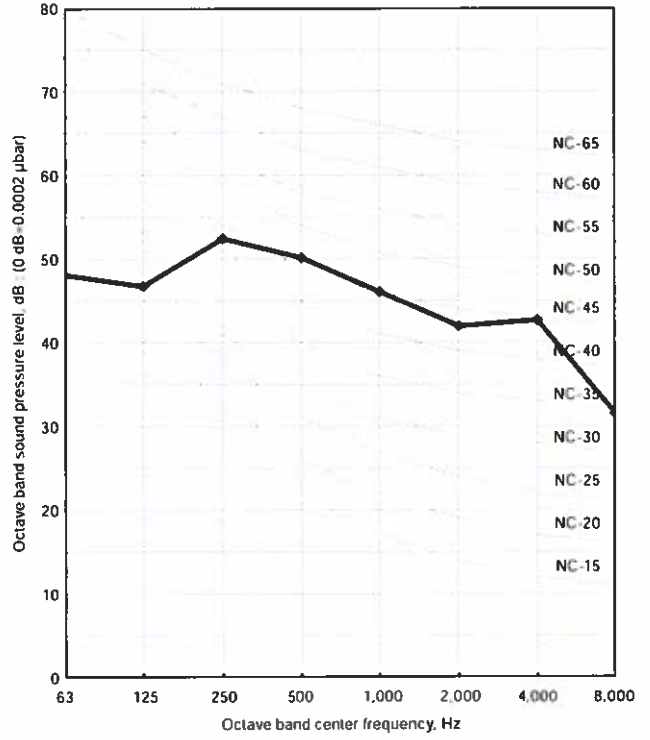
8-1. NOISE LEVEL CURVE

MODEL: AO*G18LFC

● Cooling

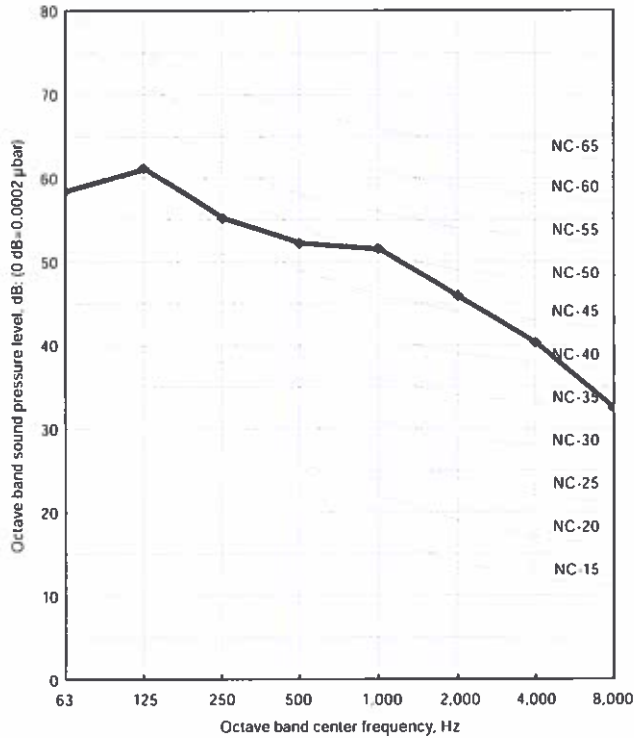


● Heating

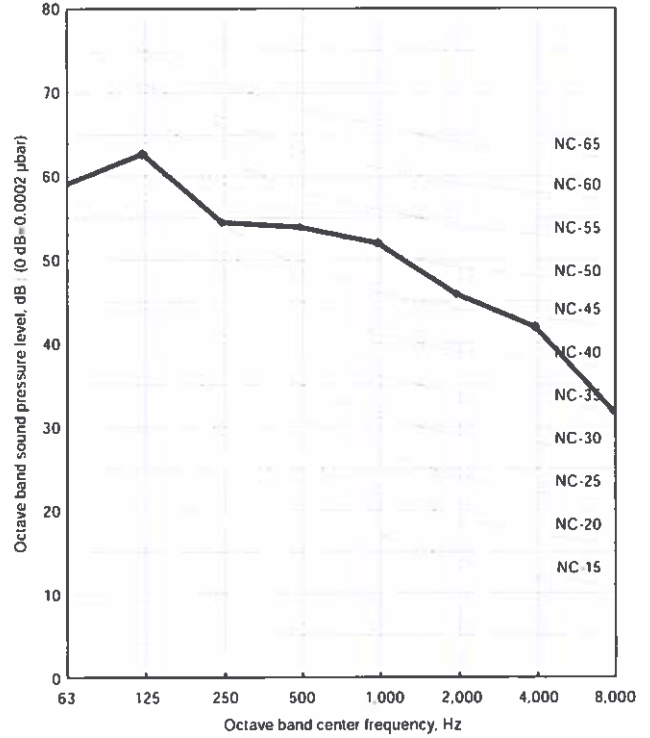


MODEL: AO*G24LFCC

● Cooling



● Heating



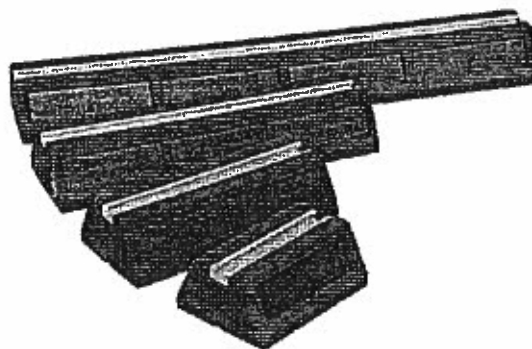
Mounting

Pump House - *flexi* Foot with Strut

Flexi Foot with Strut - These feet can support pipework, cable tray, and can also be used to mount air conditioning units, air source heat pumps and a variety of outdoor equipment. Solar thermal and solar photovoltaic on flat roof installations can also be accommodated.

Features:

- Available in four sizes: 250, 400, 600 & 1000 (mm).
- Made from heavy duty recycled rubber.
- 21 x 41 (mm) galvanised steel strut is supplied bonded to the rubber.
- Drain slots molded to the underside of the foot.



	Material
Rubber	Compression moulded using milled, sieved and graded, recycled rubber bound with high quality adhesive.
Density	1.0 kg / cm ³
Strut	41 x 21 x 1.5 (mm) galvanised steel

Part Code	Description	Length	Width	Height	Weight	Max. Load*
FF-250-S	FLEXI FOOT - 250 mm Strut	250 mm	185 mm	100 mm	2.8 kg	125 kg
FF-400-S	FLEXI FOOT - 400 mm Strut	400 mm	185 mm	100 mm	4.6 kg	200 kg
FF-600-S	FLEXI FOOT - 600 mm Strut	600 mm	185 mm	100 mm	7.6 kg	300 kg
FF-1000-S	FLEXI FOOT - 1000 mm Strut	1000 mm	185 mm	100 mm	12.0 kg	500 kg

* the maximum loads quoted in the above table is based on loads applied over the top surface, and have been tested with a 4:1 safety ratio.

• It is the installer's responsibility to ensure that equipment weights do not exceed the safe working loads quoted and that the roof structure onto which these products are being applied is sufficiently sound to withstand the weight and point loading. If these products are used in contact with a pvc roof membrane the installer should seek advice from the membrane manufacturer on the possible migration of plasticizers, and the effect of this on the roof guarantee. These products should not be used for any purpose other than that for which they have been designed, and the products must not be modified in any way. Pump House accepts no liability for damage caused by the incorrect application or installation of these products.