



Perfecting the Air



INVERTER AIR COOLED PACKAGED AIR CONDITIONERS

FLOOR STANDING TYPE
DUCT TYPE



R-410A

COOLING ONLY 50Hz

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DIRECT AIR BLOW



DUCT CONNECTION

FLOOR STANDING TYPE



DUCT TYPE



OUTDOOR UNIT

Inverter Packaged Air Conditioner Line Up for Factories and Offices

Product Line Up **R-410A**



RZUR-Q Series

Cooling only

50Hz

Capacity	kW Btu/h	23.2 79,000	28.9 99,000	
FLOOR STANDING TYPE (DIRECT AIR BLOW)				
		FVGR08QV2S	FVGR10QV2S	
OUTDOOR UNIT				
		RZUR08QY2S	RZUR10QY2S	

RZUR-Q Series

Cooling only

Enhanced lineup

Wider capacity range with 2 new lineups of 12 and 20 HP

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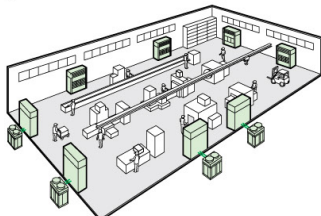
50Hz

Capacity	kW Btu/h	23.2 79,000	28.9 99,000	34.7 118,000	46.3 158,000	52.0 177,000	57.7 197,000
FLOOR STANDING TYPE (DUCT CONNECTION)							
		FVPR10QY2S	FVPR12QY2S	FVPR16QY2S	FVPR18QY2S	FVPR20QY2S	FVPR20QY2S
DUCT TYPE							
		FDR08QY2S	FDR10QY2S	FDR12QY2S	FDR16QY2S	FDR18QY2S	FDR20QY2S
OUTDOOR UNIT							
		RZUR08QY2S	RZUR10QY2S	RZUR12QY2S	RZUR16QY2S	RZUR18QY2S	RZUR20QY2S

DIRECT AIR BLOW

Direct air blow from indoor unit with plenum

- Comfortable factory air conditioning using multiple indoor units installed in accordance with the space.
- Installation is next to walls, so units will not affect the factory layout even if the changes are made.

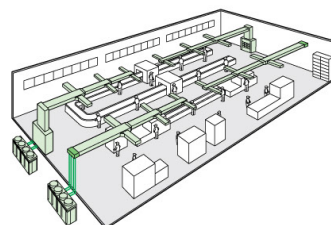


DUCT CONNECTION / DUCT TYPE

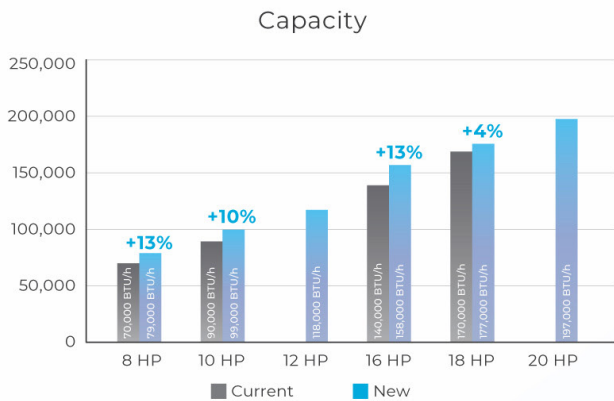
Air blow via connected ducts

- Comfortable air conditioning of the entire factory by connecting a blow duct at the top of the indoor unit.

Note: Ducts to be procured locally.



Cooling Capacity improvement

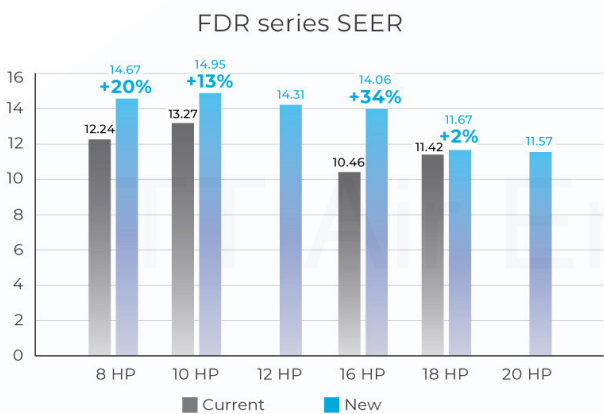


*Cooling operation conditions: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB, 24°CWB.

RZUR-Q series increase Cooling Capacity to full BTU/h to maximize product potential.



SEER Improvement



*Cooling operation conditions: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB, 24°CWB.

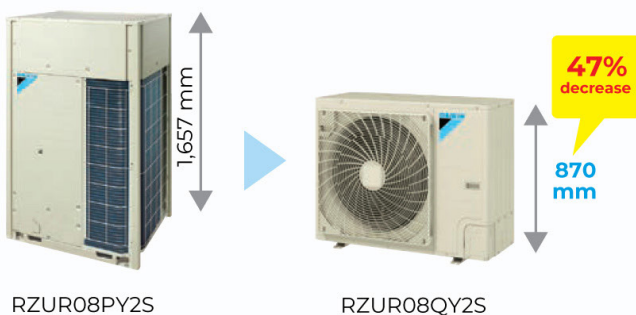
FDR-Q series provides greater energy saving due to higher SEER* as compared to FDR-P series.

*SEER: Seasonal Energy Efficiency Ratio



Design flexibility

Compact & lightweight design



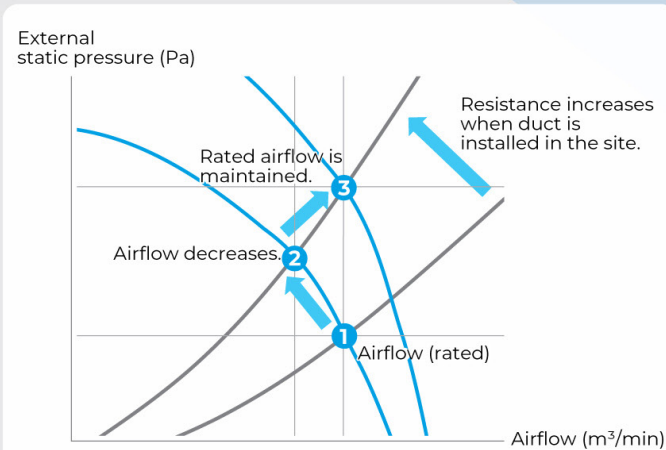
- Ideal solution that minimises both visual and sound impact
- Can be installed in a wide variety of locations and applications

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The new design has been optimised for the RZUR08QY2S with the height reduced to only 870 mm.

This low height casing design provides occupants with a clear, unobstructed view of the scenery.

Automatic adjustment of external static pressure New



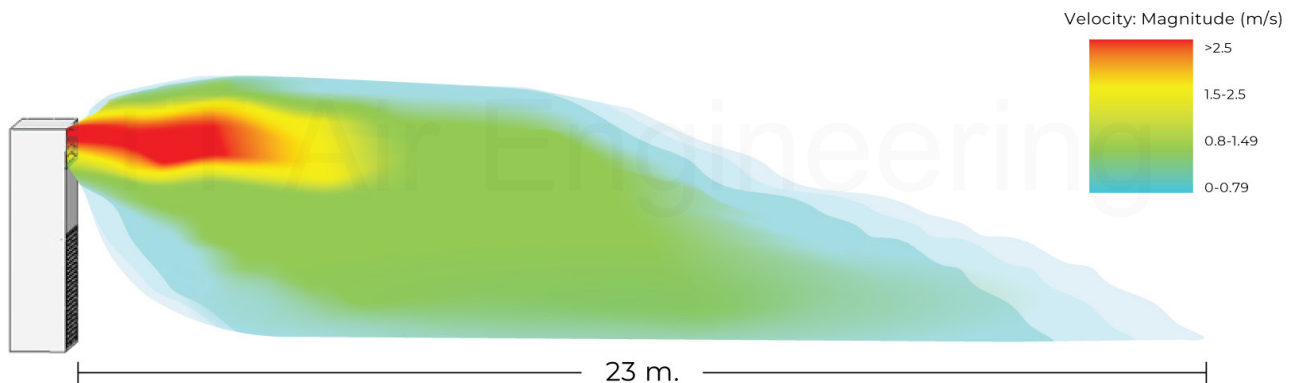
The RZUR08QY2S model has the external static pressure automatic adjustment function for maintaining the rated airflow and capacity by automatically adjusting the external static pressure during the test operation to suit the resistance of the installation site.

* For RZUR08QY2S Maximum Automatic Adjustment External Static Pressure is 40Pa. This function is set as default no field setting required.

** For Other models except RZUR08QY2S; High External Static Pressure Mode is up to 78.4Pa can be achieved via field setting.

Comfort

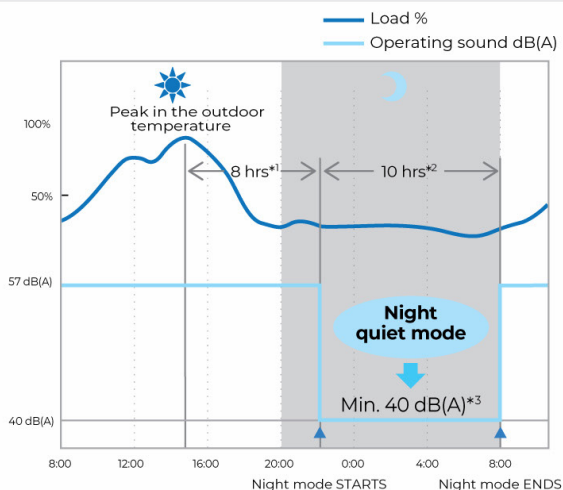
Long Air Throw 23 m.



*For FVGR08/10QV2S Test result from Daikin Airconditioning (Thailand) Ltd in May 2023 Test condition: Dry Bulb temperature 35 °C Wet Bulb temperature 26°C, Fan speed Setting: High, Operation mode: Fan(Fan only operation)

Nighttime quiet operation function

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The nighttime quiet operation function automatically suppresses the nighttime operating sound by reducing operation capacity to maintain the quiet environment of the neighborhood. Three selectable modes are available depending on the required level.

*1. Initial setting is 8 hours. Can be selected from 6, 8 and 10 hours.

*2. Initial setting is 9 hours. Can be selected from 8, 9 and 10 hours.

*3. In case of RZUR10QY2S.

Notes: This function is available in setting at site.

- The operating sound in quiet operation mode is the actual value measured by our company.
- The relationship of outdoor temperature (load) and time shown above is just an example.

Reliability

Backup operation function

Compressor backup operation function

Emergency operation



Malfunction

* For RZUR12-20QY2S models. On-site settings are required using the PCB of the outdoor unit.

Centralized management system extension

High efficiency integrated control

Intelligent Touch Manager

Lighting and ventilation control, energy use can be monitored and managed by one controller.

Intelligent Touch Manager

10.4 inch width touch screen



Centralized management can integrate with D-BACS system with high speed data transfer.

Centralized control is now available when using with Inverter packaged air conditioners.

Display of air filter cleaning times and self-inspection function for simple maintenance.

Auto restart

Automatically turn on the operation unit after facing unexpected shut down.

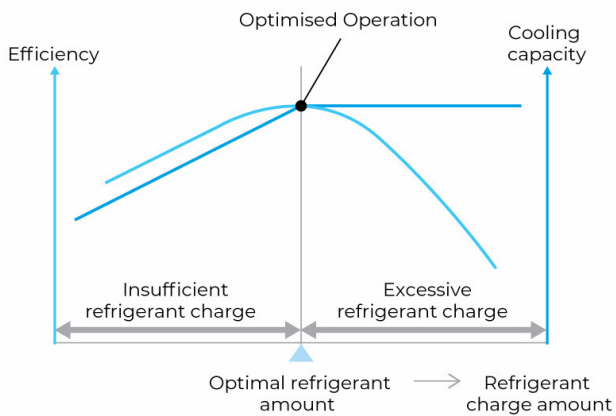
* Auto restart function can be turned ON/OFF by field setting

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Automatic refrigerant charge function

Contribute to optimised operation efficiency, higher quality and easier installation.

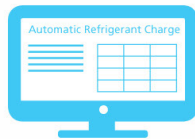
Optimised operation efficiency New



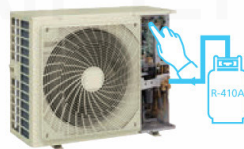
This function prevents a capacity shortage or energy loss due to excessive or insufficient refrigerant.

Higher quality and easier installation New

- 1 Calculation of necessary refrigerant amount from design drawing



- 2 Start of automatic refrigerant charge operation



- Automatic completion by proper refrigerant amount
- Monitoring refrigerant charging is unnecessary
- No recalculation of charge amounts due to minor design changes locally

The automatic refrigerant charge function automates the charging of the proper refrigerant amount and easy start by pressing one button.

* There are conditions in the range of ambient temperature in which the automatic refrigerant charge can be used. Refer to the installation manual for details.

* The refrigerant amount that can be automatically charged may differ from the additional refrigerant amount that is provided from calculations, but there are no problems in performance and quality.

Enhanced varieties of factory modification

○ Standard model
 New functions Factory modification

Factory Modification	Floor Standing Type		Duct Type
	Direct Air Blow	Duct Connection	
Auto restart	○	○	○
Change fan motor and pulley	–	□	□
Discharge grill plenum chamber	○	□	□
Side discharge grill on discharge plenum chamber	□	□	–
Front suction high efficiency filter chamber	–	□	–
Front suction base flange for front suction high efficiency filter chamber	–	□	–
Suction grill for front suction high efficiency filter chamber	–	□	–
Rear suction	–	□	–
Drain pump	□	□	–

Electricity Cost compare with Non-Inverter model

Electricity cost/year reduce **35%** averagely

SBU	Non-inverter		Inverter		Diff Electric cost/year	% Reduce
	Model	Electric cost / Year	Model	Electric cost / Year		
Duct	AFDR08NY1	129,518 THB	FDR08QY2S	78,623 THB	50,895 THB	39%
	AFDR10NY1	164,834 THB	FDR10QY2S	96,682 THB	68,151 THB	41%
	AFDR13NY1	214,861 THB	FDR12QY2S	121,925 THB	92,936 THB	43%
	AFDR15NY1	258,047 THB	FDR16QY2S	164,068 THB	93,979 THB	36%
	AFDR18NY1	307,880 THB	FDR18QY2S	221,440 THB	86,441 THB	28%
	AFDR20NY1	361,788 THB	FDR20QY2S	248,591 THB	113,197 THB	31%
Floor Direct blow	AFVR08NV1	123,825 THB	FVGR08QV2S	82,034 THB	41,791 THB	34%
	AFVR10NV1	161,688 THB	FVGR10QV2S	106,987 THB	54,701 THB	34%
Floor Duct Connection	AFPR10NY1	164,834 THB	FVPR10QY2S	103,836 THB	60,997 THB	37%
	AFPR13NY1	213,952 THB	FVPR12QY2S	151,739 THB	62,162 THB	29%
	AFPR15NY1	257,066 THB	FVPR16QY2S	77,038 THB	80,029 THB	31%
	AFPR18NY1	304,171 THB	FVPR18QY2S	204,123 THB	100,048 THB	33%
	AFPR20NY1	357,189 THB	FVPR20QY2S	226,651 THB	130,538 THB	37%

*Electric cost refer calculation method from ISO16358-1:2013 same method as EGAT Air Conditioning No 5 Label (Operating 8hr/day, Electric cost 5.00Baht/unit), Calculation base on same capacity(BTU/h)



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FLOOR STANDING TYPE

DIRECT AIR BLOW

Model Name	Indoor unit		Outdoor unit	
Rated cooling capacity ^{*1} (Min-Max.)			Btu/h	
			kW	
Power consumption ^{*1}			kW	
SEER				
COP				
Indoor unit	Power supply			
	Colour			
	Air flow rate (H/L)		m ³ /min	
			cfm	
	Fan	Motor output	kW	
		Drive		
	Dimensions (H×W×D)		mm	
	Machine weight		kg	
	Sound level		dB(A)	
Outdoor unit	Power supply			
	Colour			
	Compressor	Type		
		Motor output	kW	
	Coil type			
	Air flow rate (H)		m ³ /min	
	Dimensions (H×W×D)		mm	
	Machine weight		kg	
	Sound level ^{*2}		dB(A)	
Refrigerant Piping	Operation range		°CDB	
	Refrigerant charge		kg	
	Liquid	mm		
Max. piping length	Gas	mm		
		m		
Max. level difference		m		
Safety Device				

DUCT CONNECTION

Model Name	Indoor unit		Outdoor unit	
Rated cooling capacity ^{*1,4} (Min-Max.)			Btu/h	
			kW	
Power consumption ^{*1,4}			kW	
SEER				
COP				
Indoor unit	Power supply			
	Colour			
	Air flow rate (H)		m ³ /min	
			cfm	
	External static pressure ^{*3}		Pa	
	Fan	Motor output	kW	
		Drive		
	Dimensions (H×W×D)		mm	
	Machine weight		kg	
Outdoor unit	Power supply			
	Colour			
	Compressor	Type		
		Motor output	kW	
	Coil type			
	Air flow rate (H)		m ³ /min	
	Dimensions (H×W×D)		mm	
	Machine weight		kg	
	Sound level ^{*2}		dB(A)	
Refrigerant Piping	Operation range		°CDB	
	Refrigerant charge		kg	
	Liquid	mm		
Max. piping length	Gas	mm		
		m		
Max. level difference		m		
Safety Device				

Note: *1. Indoor temp: 27°CDB, 19°CWB / outdoor temp: 35°CDB, 24°CWB / Equivalent piping length: 7.5 m, level difference: 0 m.
*2. Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode. When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.
*3. The value is the external static pressure with standard piping.
*4. Capacity is net, including a deduction for cooling for indoor fan motor heat.
** SEER refer calculation method from JIS C 9612.

Model Name		Indoor unit		FDR08QY2S	FDR10QY2S	FDR12QY2S	FDR16QY2S	FDR18QY2S	FDR20QY2S	
		Outdoor unit		RZR08QY2S	RZR10QY2S	RZR12QY2S	RZR16QY2S	RZR18QY2S	RZR20QY2S	
Rated cooling capacity*1.5 (Min-Max.)			Btu/h	79,000 (11,000-80,000)	99,000 (21,000-100,000)	118,000 (45,000-120,000)	158,000 (44,000-160,000)	177,000 (47,000-180,000)	197,000 (47,000-200,000)	
			kW	23.20 (3.1-23.50)	28.90 (6.1-29.30)	34.70 (13.3-35.20)	46.30 (12.9-46.90)	52.00 (13.7-52.80)	57.70 (13.7-58.60)	
Power consumption*1.5			kW	8.92	10.70	11.19	15.69	21.22	26.39	
SEER				14.67	14.95	14.13	14.06	11.67	11.57	
COP				2.60	2.70	3.10	2.95	2.45	2.19	
Indoor unit		Power supply		3 Phase, 380 V, 50 Hz						
		Colour		Ivory White						
		Air flow rate (H)		m³/min	78		120		166	
				cfm	2,750		4,240		5,860	
		External static pressure³		Pa	98		150			
		Fan	Motor output	kW	1.5				2.2	
			Drive		Belt Drive					
		Dimensions (H×W×D)		mm	500×1,330×850		625×1,980×850		760×2,195×870	
		Machine weight		kg	106		187		216	
		Sound level		dB(A)	57		59		60	
Drain		mm	PS 3/4B Internal thread			PS 1B Internal thread				
Outdoor unit		Power supply		3 Phase, 380 V, 50 Hz						
		Colour		Ivory white						
		Compressor	Type	Hermetically sealed swing type		Hermetically sealed scroll type				
			Motor output	kW	3.2×1		4.5×1		(3.5×1)+(3.5×1)	
				Micro Channel		Cross fin coil				
		Air flow rate (H)		m³/min	126		178		257	
		Dimensions (H×W×D)		mm	870×1,100×460		1,657×930×765		1,657×1,240×765	
		Machine weight		kg	113		185		260	
		Sound level¹²		dB(A)	61		57		60	
		Operation range		°CDB	10 to 49					
Refrigerant charge		kg	3.8		6.7		8.2			
Refrigerant Piping	Liquid	mm	Ø 9.5 (Brazing)			Ø 12.7 (Brazing)		Ø 15.9 (Brazing)		
	Gas	mm	Ø 19.1 (Brazing)		Ø 22.2 (Brazing)		Ø 28.6 (Brazing)			
Max. piping length			m	70 (equivalent length 90 m)						
Max. level difference			m	50*4		50				
Safety Device				High Pressure Switch, Fan Driver Overload Protector, Inverter Overload Protector, Fuse, Bimetal thermostat (Overload Relay)						

Note: *1. Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB, 24°CWB / Equivalent piping length: 7.5 m, level difference: 0 m.

*2. Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.

When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

*3. The value is the external static pressure with standard pulley.

*4. Max. 40 m if the outdoor unit is lower than the indoor unit.

*5. Capacity are net, including a deduction for cooling for indoor fan motor heat

** SEER refer calculation method from JIS C 9612

Option

FLOOR STANDING TYPE

Option	Direct Air Blow		Duct Connection	
	FVGR08/10QV2S	FVPR10QY2S	FVPR12/16QY2S	FVPR18/20QY2S
Discharge grill plenum chamber (Including pulley and belt)	—	BPCV10Q	BPCV16Q	BPCV20Q
Filter chamber	—	BFU1B250	BFU1B400	BFU1B500

DUCT TYPE

Option	FDR08QY2S	FDR10QY2S	FDR12QY2S	FDR16QY2S	FDR18QY2S	FDR20QY2S
Discharge grill plenum chamber (Including pulley and belt)	BPCD10Q		BPCD16Q		BPCD20Q	

CONTROL SYSTEM

Option	FVGR-QV2S	FVPR-QY2S	FDR-QY2S
Simplified remote controller	BRC2E61 (Built-in)	BRC2E61 (Built-in)	BRC2E61
Navigator remote controller	—	BRC1E63	
Intelligent touch controller	DCS601CS1		
Central remote controller	DCS302CA61		
Unified ON/OFF controller	DCS301B61		
Schedule timer	DST301BA61		
Wiring adaptor for electrical appendices (Group control adaptor) ★	KRP4AA51		
Wiring adaptor for electrical appendices ★	—	KRP2A61	
Adaptor for wiring ★	—		
Adaptor for wiring (operation status output) ★	—		
Remote sensor (for indoor temperature)	BRCS01A-6		
Mounting plate for adaptor PCB ☆	BRP20A-3	BRP20A-2	

Note: Mounting plate ☆ is necessary for each adaptor marked ★.

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Warning

- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

Notice

- About harmonics, since this product is equipped with an inverter, harmonics will be generated. If local laws require the suppression of harmonics on the building, please take harmonic suppression measures on the electrical equipment side. Please contact your local sales company for details.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided.
If you need to install the outdoor unit close to the sea shore, contact your local distributor.

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SIAM DAIKIN SALES CO.,LTD.

22 Soi Onnuch 55/1
Pravet Subdistrict, Pravet District,
Bangkok 10250

Tel. 0-2838-3200
Fax. 0-2721-7607

