



Innovative and Efficient Solutions for You

Air-Cooled PRODUCT SYSTEM

- Residential
- Light Commercial
- Commercial / Industrial

All Product Catalogue

R407C & R410A



Model Range

Wall Mounted
Single Split J Series



FTYN20JXV1
FT(Y)N25/35/50/60JXV1

Wall Mounted
Single Split F Series



FT(Y)N80FXV1

Model Range

Ceiling Convertible E Series



FLRN35/50/60/71/90/100EXV1
FLQN35/50/60/71/90/100EXV1

Ceiling Exposed C Series



FHRN140CXV1
FHQN140CXV1

Model Range

Ceiling Concealed D Series



FD(Y)MP75/100DXV1

Ducted Split D & E Series



FDP125/150DXV1, FDYP125/150EXV1
2FDP150/200DXV1, 2FDYP150/200EXV1
(2-4)FGP250/300/400/500DXV1
(2-4)FGYP250/300/350/400/450/500/600EXV1

Products Overview

Ceiling Cassette E Series



FCRN50/60/71/100/125EXV1
FCQN50/60/71/100/125EXV1

Ceiling Cassette C Series



FFRN25/35/50CXV1
FFQN25/35/50CXV1

Floor Standing A Series



FVRN71/100/125/140AXV1
FVQN71/100/125/140AXV1

Ceiling Concealed C Series



FDMRN25/35/50/60/71/100/125/140CXV1
FDMQN25/35/50/60/71/100/125/140CXV1

Air-Cooled Rooftop A Series

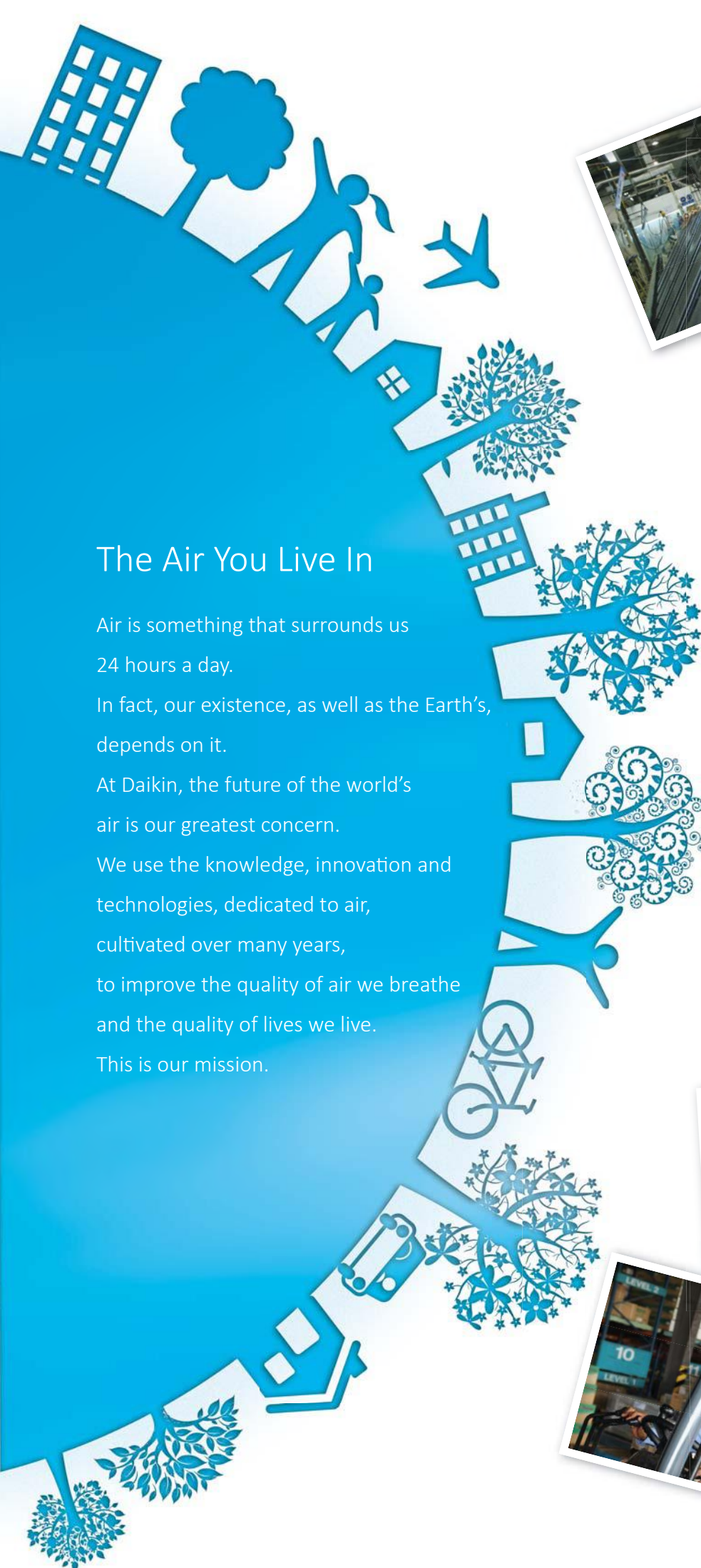


UAT(Y)P60/80/100/120/150/200/250/
300/360/420AGXY1

Air-Cooled Rooftop B Series



UATYQ250/350/450/550/600/700MCY1



The Air You Live In

Air is something that surrounds us
24 hours a day.

In fact, our existence, as well as the Earth's,
depends on it.

At Daikin, the future of the world's
air is our greatest concern.

We use the knowledge, innovation and
technologies, dedicated to air,
cultivated over many years,
to improve the quality of air we breathe
and the quality of lives we live.

This is our mission.

This is our mission.



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Remark: All unit photos in this catalog are solely for illustration purpose, actual outlook may differ slightly.
All specifications are subjected to change by the manufacturer without prior notice.



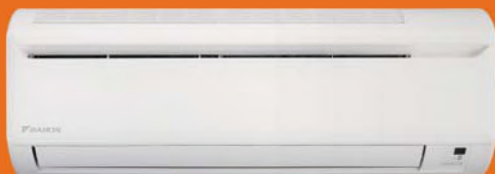
Wall
Mounted



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Residential Series

Wall Mounted J Series



FTYN20JXV1
FT(Y)N25/35/50/60JXV1

Stylish Flat-Panel

Ideal blend of style and function. Regular cleaning is easier by just wiping the flat front panel. This ensures the air-conditioner looks brand new at all time.

Better Indoor Air Quality (IAQ) Using Bio-Engineering

IAQ solution which combines superior cleansing and purifying of Bio Antibody filter with more effective deodorizing features of Titanium Apatite filter. Working in tandem, both technologically-advanced air filters offer higher level of IAQ and room comfort.

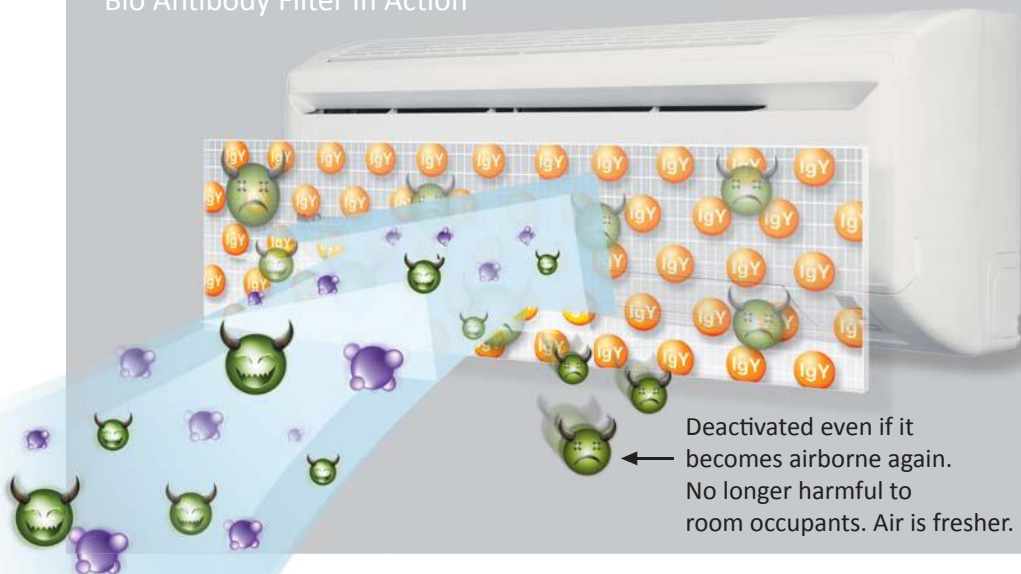
Bio Antibody Filter

Protection 1

Bio-engineering is the fusion of life science with engineering principles that creates exciting new solutions to considerably enhance the needs of modern lifestyle.

Using advanced bio-engineering techniques, the Bio Antibody filter is able to eliminate up to 99.99% of various airborne infectious viruses to provide a cleaner and more purified living environment.

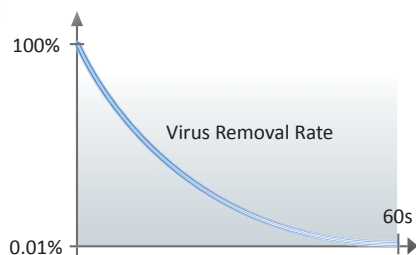
Bio Antibody Filter In Action



IgY Antibody
Deactivates 99.99% of airborne infections viruses within 1 minute

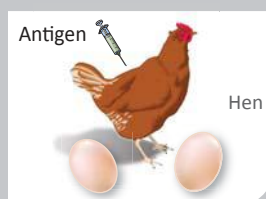
Bio-Antibody Filter
Special filter material that contains IgY antibodies

Airborne Virus
Free floating viruses and antigen causes potential health hazards and discomfort to the room occupants

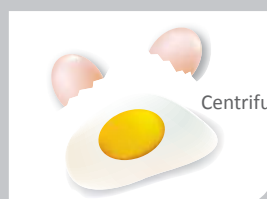


- Effective against the common H1N1 and N3N2 Type-A influenza viruses.
- Neutralization of viruses as a result of Natural antigen-antibody reaction.

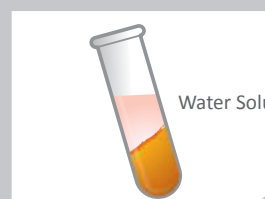
IgY Antibody Extraction Technique



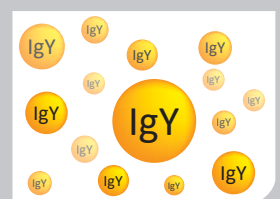
Through immunization process, a healthy hen is injected with antigen to stimulate the production of natural IgY antibodies. Eggs produced by immunized hen also contains IgY antibodies.



The egg yolk liquid is removed and by centrifugal separation, pure IgY is obtained.



By method of deposition, high concentration of IgY is extracted.



After sterilization and spray dry, IgY powder is applied on special moisture-retaining filter material.

* Bio Antibody filter is offered as optional accessory

This product is not a medical device, medical treatment device or therapeutic goods.

This product is not intended to have any therapeutic use or to be used for the diagnosis, treatment relief or prevention of illness.

If you have a health concern or are not feeling well, please consult a health care professional.

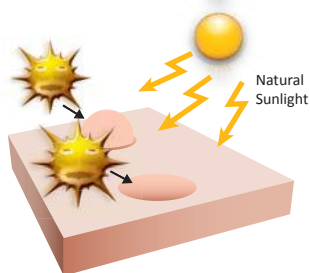
Protection 2 - Titanium Apatite Filter

Micron-scale fibers trap dust while titanium apatite absorbs organic contaminants such as bacteria and viruses. In addition, the titanium oxide is activated by natural light, allowing it to break down and eliminate odours. The filter effectively deactivates bacteria and viruses. It lasts for three years without replacement if washed about once every six months.

Titanium Oxide

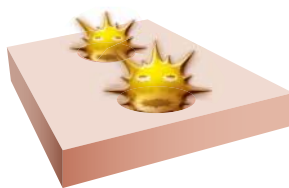
- Photocatalytic deodorizing filter
- Mechanism of photocatalyst:
 - Titanium Oxide is activated by exposure to light.
 - Becomes highly oxidative.
 - Dissolves absorbed substances into harmless water (H_2O) and carbon dioxide (CO_2).
- Absorption of dangerous airborne particles like dust, pollen and cigarette smoke.
- Dissolves odour, bacteria and virus.

Step 1



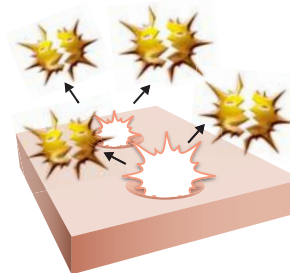
When photocatalyst is exposed to light, it is activated and absorbs odour particles

Step 2



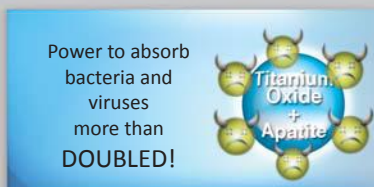
A chemical reaction decomposes the odours into CO_2 and H_2O

Step 3



The odourless substance is then released into the air.

Absorption power is more than doubled, dissolution force is increased.



Dissolution efficiency is also improved

* Titanium Apatite filter is offered as optional accessory.

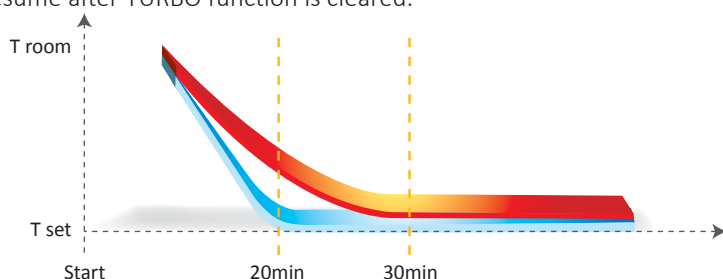
This product is not a medical device, medical treatment device or therapeutic goods.

This product is not intended to have any therapeutic use or to be used for the diagnosis, treatment relief or prevention of illness.

If you have a health concern or are not feeling well, please consult a health care professional.

Turbo Mode

TURBO function is available in COOL and HEAT modes. Once it is activated, the air-conditioner will run on full power with indoor fan running at MAX speed for 20 minutes. This enables the set temperature to be achieved faster. If TURBO and SLEEP are activated at the same time, the SLEEP mode timer will be reset, it will resume after TURBO function is cleared.



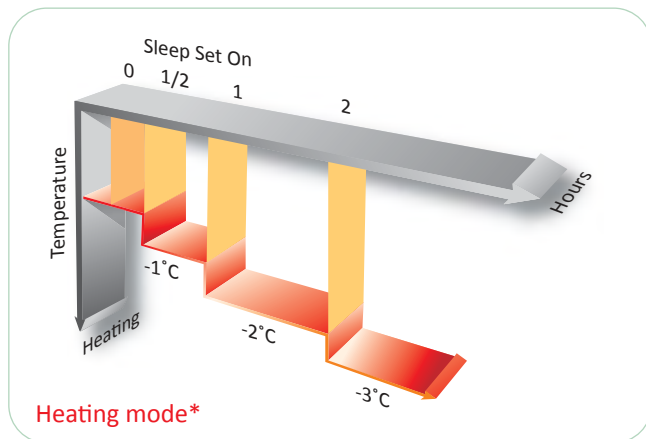
Lower Sound Level

With up to five selectable fan speeds, users are given more choices. By selecting Quiet mode, the sound pressure level can be reduced down to an unobtrusive 25 dBA.

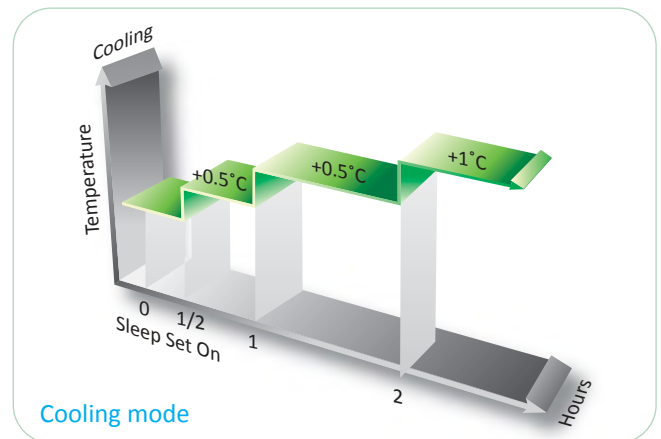


Sleep Mode

Once activated, sleep mode ensures a comfortable environment for restful sleep. Depending on the mode, set temperature is increased/decreased gradually according to normal sleeping temperature patterns.

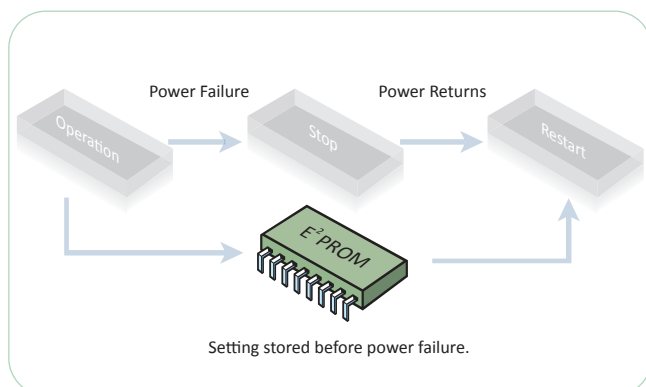


* Heat pump models only



Auto Random Restart with Last-State-Memory

In the event of a sudden power failure during operation, unit restarts automatically in 64 different recovery timing patterns (within 180 seconds to 244 seconds) and the unit will operate based on the previous setting (operating mode, temperature setting and fan speed). This ensures that air conditioners in the same building resume randomly instead of all units resuming at the same time, preventing power surge after a blackout.



Compact & Easy-to-Use Handset

- Prominent 40mm LCD display.
- Real time clock display.
- Dedicated buttons for Quiet and Turbo functions.



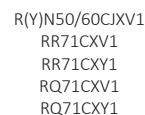
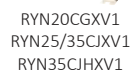
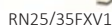
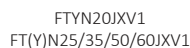
FT(Y)N80FXV1

Higher cooling/heating capacity wall mounted unit with below key features:

- **Uniform Air Distribution**
Automated air swing ensures conditioned air are distributed evenly.
- **Quiet Operation**
Random-pitched fan blade delivers high air flow at lower sound level.
- **Easy Maintenance**
Air intake grille is easily detachable to be cleaned with water.



* Optional ** Optional for RR71CXV1, RR71CXY1, RQ71CXV1, RQ71CXY1



- | | |
|----------------------------|---|
| › Uniform air distribution | › Turbo mode |
| › Quiet operation | › Lower sound level |
| › Easy maintenance | › Gold fin outdoor for RYN20CGXV1, RYN25/35FXV1, RYN35CJHXV1, R(Y)N50/60CJXV1 |
| › Stylish flat-panel | › Wireless handset BRC52A61 (H/P) or BRC52A62 (C/O) is supplied as standard |

Indoor Model Name			FTN25JXV1	FTN35JXV1	FTN50JXV1	FTN60JXV1	FTN80FXV1	FTN80FXV1
Outdoor Model Name			RN25FXV1	RN35FXV1	RN50CJXV1	RN60CJXV1	RR71CXV1	RR71CXV1
Nominal Cooling Capacity		Btu/h	9500	12000	17900	20500	26000	26000
		W	2780	3520	5250	6010	7620	7620
Nominal EER		W/W	3.22	3.23	3.21	3.21	2.98	2.90
Indoor	Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Air Flow	CFM	358/342/282/225/209	372/355/298/242/225	594/531/474/422/381	641/614/537/474/418	670/630/500	670/630/500
	Sound Pressure Level	dBA	39/37/33/27/25	40/39/35/29/28	44/42/39/36/35	48/46/43/39/37	49/47/45	49/47/45
	Height	mm	288	288	310	310	360	360
	Width	mm	800	800	1065	1065	1200	1200
	Depth	mm	206	206	224	224	200	200
	Net Weight	kg	9	9	14	14	17	17
Outdoor	Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50
	Sound Pressure Level	dBA	46	48	52	52	58	58
	Height	mm	550	550	651	753	753	753
	Width	mm	658	658	855	855	855	855
	Depth	mm	273	273	328	328	328	328
	Net Weight	kg	28	29	47	50	57	57
	Pipe connection - Liquid	mm	6.35	6.35	6.35	6.35	9.52	9.52
	Pipe connection - Gas	mm	9.52	12.70	12.70	15.88	15.88	15.88
	Max. Piping Length	m	25	25	20	20	15	15
	Max. Elevation	m	15	15	15	15	8	8

Indoor Model Name		FTYN20JXV1	FTYN25JXV1	FTYN35JXV1	FTYN35JXV1	FTYN50JXV1	FTYN60JXV1	FTYN80FXV1	FTYN80FXV1	
Outdoor Model Name		RYN20CJXV1	RYN25CJXV1	RYN35CJXV1	RYN35CJHXV1	RYN50CJXV1	RYN60CJXV1	RQ71CXV1	RQ71CXV1	
Nominal Cooling Capacity	Btu/h	7300	9040	10750	12000	17900	20500	26000	26000	
	W	2140	2650	3150	3520	5250	6010	7620	7620	
Nominal Heating Capacity	Btu/h	7000	9550	11530	11850	18000	21000	26000	26000	
	W	2060	2800	3380	3470	5280	6150	7620	7620	
Nominal EER	W/W	3.04	3.21	2.88	3.23	3.21	3.21	2.98	2.90	
Nominal COP	W/W	3.68	3.61	3.42	3.62	3.54	3.42	3.12	3.32	
Indoor	Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
	Air Flow	CFM	275/262/227/195/182	358/342/282/225/209	372/355/298/242/225	372/355/298/242/225	594/531/474/422/381	641/614/537/474/418	670/630/500	670/630/500
	Sound Pressure Level	dBA	37/36/31/25/24	39/37/33/27/25	40/39/35/29/28	40/39/35/29/28	44/42/39/36/35	48/46/43/39/37	49/47/45	49/47/45
	Height	mm	288	288	288	288	310	310	360	360
	Width	mm	800	800	800	800	1065	1065	1200	1200
	Depth	mm	206	206	206	206	224	224	200	200
	Net Weight	kg	9	9	9	9	14	14	17	17
Outdoor	Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	
	Sound Pressure Level	dBA	44	46	49	49	52	52	58	58
	Height	mm	494	540	540	540	651	753	753	753
	Width	mm	600	700	700	700	855	855	855	855
	Depth	mm	245	250	250	250	328	328	328	328
	Net Weight	kg	24	29	31	31	47	50	57	57
	Pipe connection - Liquid	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52	9.52
	Pipe connection - Gas	mm	9.52	9.52	12.70	12.70	12.70	15.88	15.88	15.88
	Max. Piping Length	m	12	20	20	20	20	20	15	15
Max. Elevation	m	5	10	10	10	15	15	8	8	



Ceiling
Cassette
E Series



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Ceiling
Cassette
C Series



12

Ceiling
Convertible
E Series



15

Ceiling
Concealed
C Series



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Floor
Standing
A Series



22

Light Commercial Series

Ceiling Cassette E Series



FCRN50/60/71/100/125EXV1
FCQN50/60/71/100/125EXV1

Optimum Air Discharge

Combining 4 ways air discharge and large discharge area on each side, Ceiling Cassette promote even air distribution. The additional feature of automatic air swing helps to distribute the conditioned air more evenly to every corner of the room.



Superior Sound Level

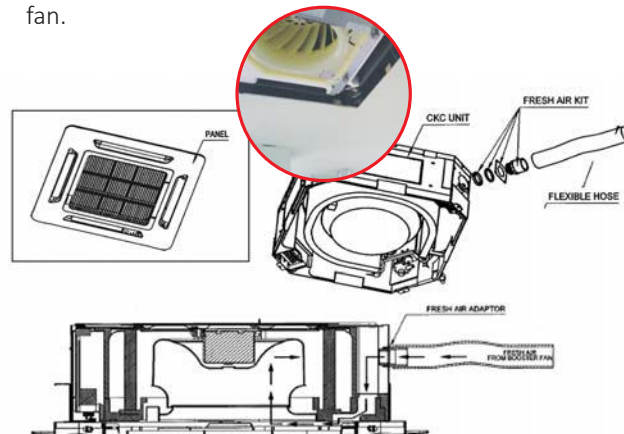
The FCRN-EXV1/FCQN-EXV1 series is equipped with a newly-developed turbo fan; the shape produce low air turbulence. With up to 4 selectable fan speeds, users are given more choices. By selecting the Quiet mode, the sound pressure level can be as low as 28dBA.

Indoor Model	Max (dBA)	Min (dBA)
FCRN50EXV1 / FCQN50EXV1	34	28
FCRN60EXV1 / FCQN60EXV1	37	32
FCRN71EXV1 / FCQN71EXV1	42	33
FCRN100EXV1 / FCQN100EXV1	47	36
FCRN125EXV1 / FCQN125EXV1	49	39



Fresh Air Option

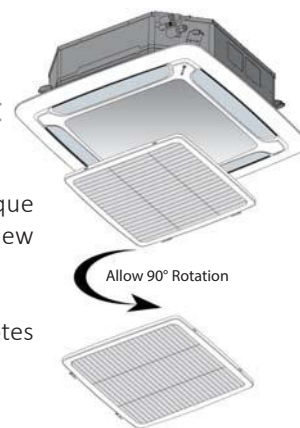
- Knock out hole is available at the unit.
- Installation & accessories need to be field supplied & installed.
- Keep the introduction of fresh air intake within 20% of total air flow. Also provide a chamber and use a booster fan.



Modern & Elegant Panel

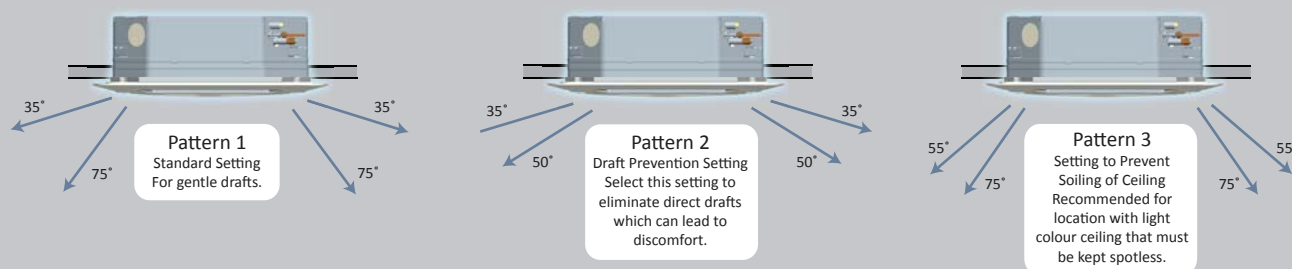
It is designed with unique "round" side contour and new LED light location.

Rotatable intake grill promotes uniform installation.



Multi-Comfort – 3 Air Swing Pattern Control

To increase the comfort level of the air conditioned area of FCRN-EXV1/FCQN-EXV1 series, the system is built in with 3 different types of air flow pattern to suit different requirement.



The default setting for air swing pattern is pattern 1. The air swing pattern can be selected through the wireless remote control.

Low Height Model

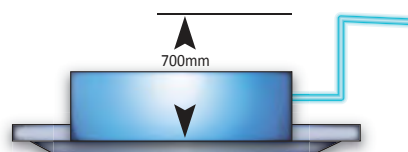
The FCRN-EXV1/FCQN-EXV1 series height is as low as 300mm to ease installation.



Dimension (mm)		
Model	A	B
FCRN50 - 71EXV1 FCQN50 - 71EXV1	265	300
FCRN100 - 125EXV1 FCQN100 - 125EXV1	300	335

Built-In High Head Drain Pump

The unit comes with a built-in high head drain pump of 700mm pressure head. A safety float is incorporated in the drain pump to monitor its water level.



Ceiling Cassette E Series



* Optional ** For RR90/100DXV1, RR90/100/125DXV1, RQ90/100DXV1, RQ90/100/125DXV1



FCRN50/60/71/100/125EXV1
FCQN50/60/71/100/125EXV1



R(Y)N50/60CXV1
RR71CXV1
RQ71CXV1



RR90/100DXV1
RR90/100/125DXV1
RQ90/100DXV1
RQ90/100/125DXV1

- › Optimum air discharge
- › Modern & elegant panel
- › Superior sound level
- › Multi-comfort – 3 Air swing pattern control
- › Low height model
- › Built-in high head drain pump
- › Mount with B(Y)C50EXW decorative panel
- › Wireless handset BRC52A61 (H/P) or BRC52A62 (C/O) is supplied as standard

Specification for Ceiling Cassette- E Series, 3ft x 3ft Panel - Cooling

Indoor Model Name		FCRN50EXV1	FCRN60EXV1	FCRN71EXV1	FCRN100EXV1	FCRN100EXV1	FCRN100EXV1	FCRN100EXV1	FCRN125EXV1
Outdoor Model Name		RN50CXV1	RN60CXV1	RR71CXV1	RR90DXV1	RR90DXV1	RR100DXV1	RR100DXV1	RR125DXV1
Nominal Cooling Capacity	Btu/h	18300	22200	27000	29200	31000	39000	39000	45000
	W	5363	6506	7913	8558	9086	11430	11430	13190
Nominal EER	W/W	3.08	3.36	2.84	3.03	3.28	2.92	2.98	2.93
Indoor	Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Air Flow	CFM	600/530/430/400	680/600/530/430	860/725/620/530	1030/860/740/620	1030/860/740/620	1030/860/740/620	1200/1030/930/780
	Sound Pressure Level	dBA	34/32/30/28	37/34/33/32	42/38/35/33	47/44/40/36	47/44/40/36	47/44/40/36	49/45/43/39
	Height [with Panel]	mm	265 [340]	265 [340]	265 [340]	300 [375]	300 [375]	300 [375]	300 [375]
	Width [with Panel]	mm	820 [990]	820 [990]	820 [990]	820 [990]	820 [990]	820 [990]	820 [990]
	Depth [with Panel]	mm	820 [990]	820 [990]	820 [990]	820 [990]	820 [990]	820 [990]	820 [990]
	Net Weight [with Panel]	kg	26 [30]	28 [32]	31 [35]	39 [43]	39 [43]	39 [43]	41 [45]
Outdoor	Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	220-240/1/50	380-415/3/50	380-415/3/50
	Sound Pressure Level	dBA	52	52	58	58	58	58	60
	Height	mm	651	753	753	852	852	852	852
	Width	mm	855	855	855	1030	1030	1030	1030
	Depth	mm	328	328	328	400	400	400	400
	Net Weight	kg	47	50	57	86	86	95	98
	Pipe connection - Liquid	mm	6.35	6.35	9.52	9.52	9.52	9.52	9.52
	Pipe connection - Gas	mm	12.70	15.88	15.88	15.88	15.88	15.88	15.88
	Piping Length	m	15	15	15	45	45	45	45
	Piping Elevation	m	8	8	8	25	25	25	25

Specification for Ceiling Cassette- E Series, 3ft x 3ft Panel - Cooling and Heating

Indoor Model Name		FCQN50EXV1	FCQN60EXV1	FCQN71EXV1	FCQN100EXV1	FCQN100EXV1	FCQN100EXV1	FCQN100EXV1	FCQN125EXV1
Outdoor Model Name		RYN50CXV1	RYN60CXV1	RQ71CXV1	RQ90DXV1	RQ90DXV1	RQ100DXV1	RQ100DXV1	RQ125DXV1
Nominal Cooling Capacity	Btu/h	18300	22200	27000	29200	31000	39000	39000	45000
	W	5363	6506	7913	8558	9086	11430	11430	13190
Nominal Heating Capacity	Btu/h	17700	20500	28000	31800	33400	39000	39500	48000
	W	5188	6008	8206	9320	9789	11430	11577	14070
Nominal EER	W/W	3.08	3.36	2.84	3.03	3.28	2.92	2.98	2.93
Nominal COP	W/W	3.48	3.41	3.53	3.66	3.84	3.06	3.21	3.43
Indoor	Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Air Flow	CFM	600/530/430/400	680/600/530/430	860/725/620/530	1030/860/740/620	1030/860/740/620	1030/860/740/620	1200/1030/930/780
	Sound Pressure Level	dBA	34/32/30/28	37/34/33/32	42/38/35/33	47/44/40/36	47/44/40/36	47/44/40/36	49/45/43/39
	Height [with Panel]	mm	265 [340]	265 [340]	265 [340]	300 [375]	300 [375]	300 [375]	300 [375]
	Width [with Panel]	mm	820 [990]	820 [990]	820 [990]	820 [990]	820 [990]	820 [990]	820 [990]
	Depth [with Panel]	mm	820 [990]	820 [990]	820 [990]	820 [990]	820 [990]	820 [990]	820 [990]
	Net Weight [with Panel]	kg	26 [30]	28 [32]	31 [35]	39 [43]	39 [43]	39 [43]	41 [45]
Outdoor	Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	220-240/1/50	380-415/3/50	380-415/3/50
	Sound Pressure Level	dBA	52	52	58	58	58	58	60
	Height	mm	651	753	753	852	852	852	852
	Width	mm	855	855	855	1030	1030	1030	1030
	Depth	mm	328	328	328	400	400	400	400
	Net Weight	kg	47	50	57	86	86	95	98
	Pipe connection - Liquid	mm	6.35	6.35	9.52	9.52	9.52	9.52	9.52
	Pipe connection - Gas	mm	12.70	15.88	15.88	15.88	15.88	15.88	15.88
	Piping Length	m	15	15	15	45	45	45	45
	Piping Elevation	m	8	8	8	25	25	25	25

Ceiling Cassette C Series



FFRN25/35/50CXV1
FFQN25/35/50CXV1

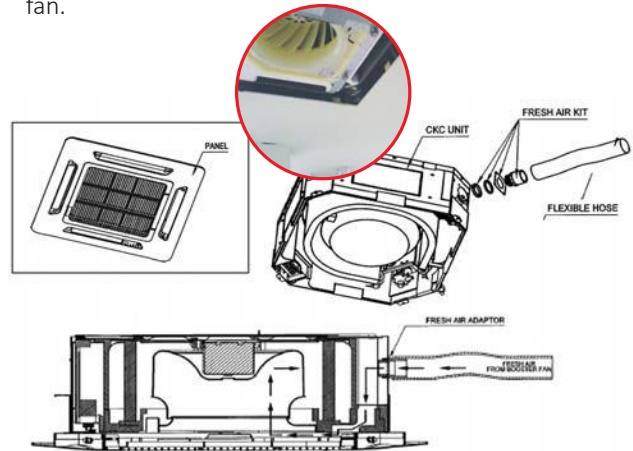
4 Way Air Discharge And Air Swing

It comes with 4 way air discharge and air swing function to ensure better air distribution and circulation in the room.



Fresh Air Option

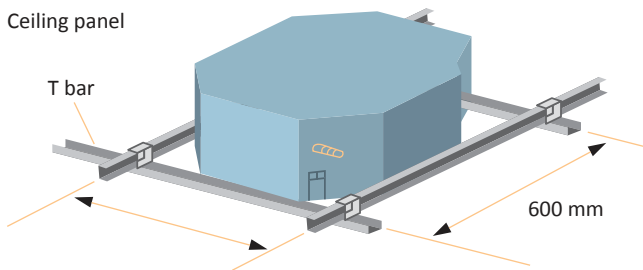
- Knock out hole is available at the unit.
- Installation & accessories need to be field supplied & installed.
- Keep the introduction of fresh air intake within 20% of total air flow. Also provide a chamber and use a booster fan.



Compact Design

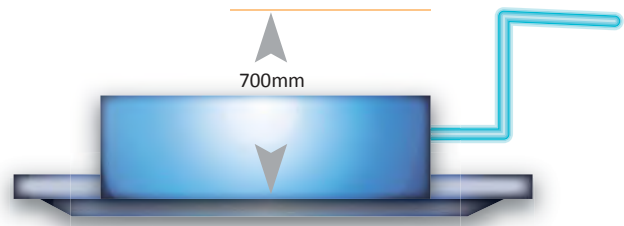
The FFRN-CXV1/FFQN-CXV1 series is designed to be compact. Its body dimension is only 570mm x 570mm which can easily fit into a 600mm ceiling grids. This make installation a lot easier.

Ceiling panel



Built-In High Head Drain Pump

The unit comes with a built-in high head drain pump of 700mm pressure head. A safety float is incorporated in the drain pump to monitor its water level.



Stylish And Slim Panel

The slim panel can be blended easily into interior decoration and design.

Auto Mode

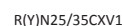
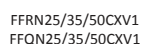
Auto Mode allows the setting to change automatically between cool and heat mode depending on the room temperature and the set temperature required.

Hot Keep Cycle

During heat mode hot keep cycle, the fan will run at low speed during the thermostat cycle off. As a result, one will not feel the draft of cold air discharge from the unit. Option of fan stop or fan run at specific interval timing can also be selected.

Self Diagnosis

This intelligent feature helps to detect faults or malfunctioning in the system and give user a warning by blinking of the LED lights.



- ### Specification for Ceiling Cassette- C Series, 2ft x 2ft Panel - Cooling

Specification for Ceiling Cassette- C Series, 2ft x 2ft Panel - Cooling and Heating

13

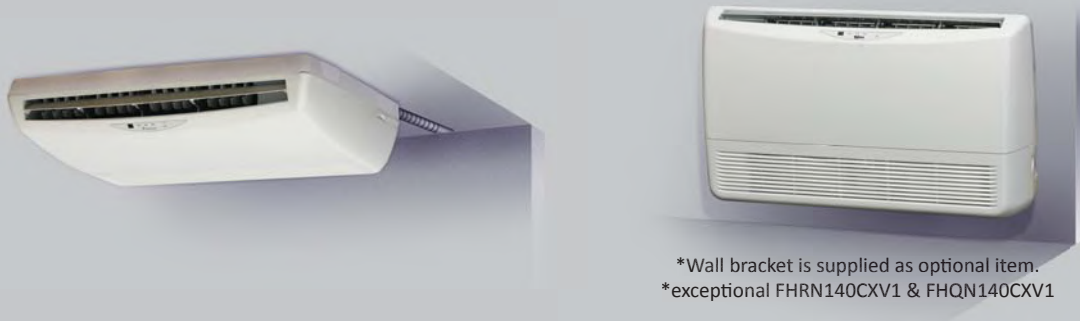
Ceiling Convertible E Series



FLRN35/50/60/71/90/100/125EXV1
FLQN35/50/60/71/90/100/125EXV1

Ceiling and Floor Installation Option

The unit is designed with the option to install either below the ceiling or mounted at low wall position to suit any interior design requirement.

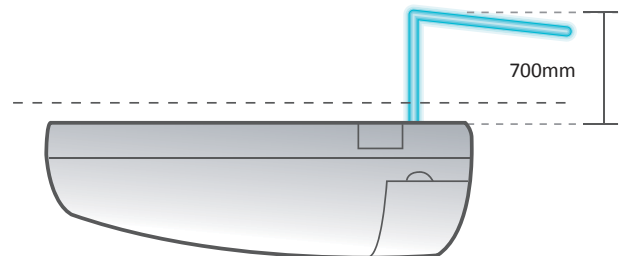


Automatic Air Swing

The motorized louver enables the air flow to be evenly distributed. At the same time, negative ion will be released to provide quality air.

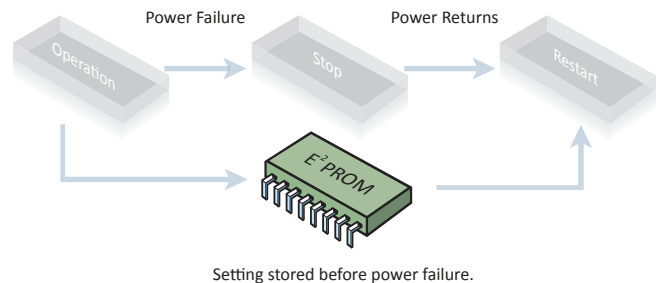
Flexible Installation

The unit is designed to work with high pressure head drain pump (optional). Thus offering flexibility for installation of condensate drain pipe. The high pressure head drain pump is incorporated with a float switch as safety protection.



Auto Random Restart with Last-State-Memory

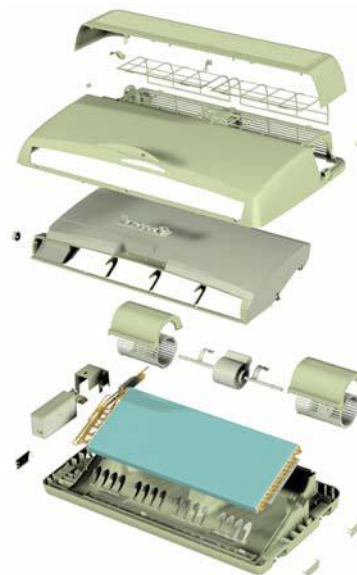
In the event of a sudden power failure during operation, unit restarts automatically in 64 different recovery timing patterns (within 180 seconds to 244 seconds) and the unit will operate based on the previous setting (operating mode, temperature setting and fan speed). This ensures that air conditioners in the same building resume randomly instead of all units resuming at the same time, preventing power surge after a blackout.



Better Serviceability

The washable filter can be easily accessed by just pulling down the intake grill. During servicing or repairing, only the bottom panel is needed to be removed in order to access the parts as below.

- Fan Motor
- Blower
- Wiring Connection
- Control Box
- Piping Connection



Ceiling Covertible E Series



FLRN35/50/60/71EXV1



FLRN90/100/125EXV1



FHRN140CXV1

- › Ceiling and floor installation option
- › Automatic air swing
- › Flexible installation
- › Auto random restart with last-state-memory
- › Better serviceability
- › Wireless handset BRC52A62 (C/O) is supplied as standard



RN35CXV1



RN50/60CXV1
RN50/60CXV1
RR71CXV1
RR71CXV1



RR90/100DXV1
RR90/100/125/140DXV1

Specification for Ceiling Covertible & Ceiling Exposed - Cooling

Indoor Model Name		FLRN35EXV1	FLRN50EXV1	FLRN50EXV1	FLRN60EXV1	FLRN60EXV1	FLRN71EXV1	
Outdoor Model Name		RN35CXV1	RN50CXV1	RN50CXV1	RN60CXV1	RN60CXV1	RR71CXV1	
Nominal Cooling Capacity	Btu/h	12900	17500	18100	20000	22860	27000	
	W	3780	5130	5300	5860	6700	7900	
Nominal EER	W/W	2.95	2.98	3.02	2.97	3.00	2.87	
Indoor	Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
	Air Flow	CFM	508/386/350	520/460/406	520/460/406	580/530/490	640/560/460	
	Sound Pressure Level	dBA	48/43/41	48/46/43	48/46/43	50/47/46	56/51/44	
	Height	mm	218	218	218	218	218	
	Width	mm	1080	1080	1080	1080	1080	
	Depth	mm	630	630	630	630	630	
	Net Weight	kg	24	24	24	24	24	
Outdoor	Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	380-415/3/50	220-240/1/50	380-415/3/50	220-240/1/50
	Sound Pressure Level	dBA	49	52	52	52	52	58
	Height	mm	540	651	651	753	753	753
	Width	mm	700	855	855	855	855	855
	Depth	mm	250	328	328	328	328	328
	Net Weight	kg	30	47	47	50	50	57
	Pipe connection - Liquid	mm	6.35	6.35	6.35	6.35	6.35	9.52
	Pipe connection - Gas	mm	12.70	12.70	12.70	15.88	15.88	15.88
	Piping Length	m	12	15	15	15	15	15
	Piping Elevation	m	5	8	8	8	8	8

Indoor Model Name		FLRN71EXV1	FLRN90EXV1	FLRN90EXV1	FLRN100EXV1	FLRN100EXV1	FLRN125EXV1	FHRN140CXV1
Outdoor Model Name		RR71CXV1	RR90DXV1	RR90DXV1	RR100DXV1	RR100DXV1	RR125DXV1	RR140DXV1
Nominal Cooling Capacity	Btu/h	26000	31000	31000	38000	39000	45000	55000
	W	7620	9000	9000	11100	11400	13190	16119
Nominal EER	W/W	2.81	3.16	3.33	2.76	2.89	2.92	2.51
Indoor	Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Air Flow	CFM	640/560/460	840/753/669	840/753/669	1100/983/877	1100/983/877	1215/1082/959
	Sound Pressure Level	dBA	56/51/44	48/47/44	48/47/44	52/47/46	52/47/46	52/50/49
	Height	mm	218	260	260	260	260	285
	Width	mm	1080	1320	1320	1538	1538	1786
	Depth	mm	630	634	634	634	634	680
	Net Weight	kg	24	38	38	45	45	58
Outdoor	Power Supply	V/Ph/Hz	380-415/3/50	220-240/1/50	380-415/3/50	220-240/1/50	380-415/3/50	380-415/3/50
	Sound Pressure Level	dBA	58	58	58	58	60	65
	Height	mm	753	852	852	852	852	852
	Width	mm	855	1030	1030	1030	1030	1030
	Depth	mm	328	400	400	400	400	400
	Net Weight	kg	57	86	86	95	95	105
	Pipe connection - Liquid	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Pipe connection - Gas	mm	15.88	15.88	15.88	15.88	15.88	19.05
	Piping Length	m	15	45	45	45	45	35
	Piping Elevation	m	8	25	25	25	25	15

Ceiling Convertible E Series



* Optional ** For RQ90/100DXV1, RQ90/100/140DXV1



FLQN35/50/60/71EXV1



FLQN90/100/125EXV1



FHQN140CXV1

- › Ceiling and Floor Installation Option
- › Automatic Air Swing
- › Flexible Installation
- › Auto Random Restart with Last-State-Memory
- › Better Serviceability
- › Wireless handset BRC52A61 (H/P) is supplied as standard



RYN35CXV1



RYN50/60CXV1
RYN50/60CXV1
RQ71CXV1
RQ71CXV1



RQ90/100DXV1
RQ90/100/125/140DXV1

Specification for Ceiling Convertible & Ceiling Exposed - Cooling and Heating

Indoor Model Name		FLQN35EXV1	FLQN50EXV1	FLQN50EXV1	FLQN60EXV1	FLQN60EXV1	FLQN71EXV1	
Outdoor Model Name		RYN35CXV1	RYN50CXV1	RYN50CXV1	RYN60CXV1	RYN60CXV1	RQ71CXV1	
Nominal Cooling Capacity	Btu/h	12900	17500	18100	20000	22860	27000	
	W	3780	5130	5300	5860	6700	7900	
Nominal Heating Capacity	Btu/h	11800	18500	18770	22000	23200	27500	
	W	3460	5420	5500	6450	6800	8050	
Nominal EER	W/W	2.95	2.98	3.02	2.97	3.00	2.87	
Nominal COP	W/W	3.06	3.63	3.60	3.22	3.20	3.28	
Indoor	Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
	Air Flow	CFM	508/386/350	520/460/406	520/460/406	580/530/490	640/560/460	
	Sound Pressure Level	dBa	48/43/41	48/46/43	48/46/43	50/47/46	56/51/44	
	Height	mm	218	218	218	218	218	
	Width	mm	1080	1080	1080	1080	1080	
	Depth	mm	630	630	630	630	630	
	Net Weight	kg	24	24	24	24	24	
Outdoor	Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	380-415/3/50	220-240/1/50	380-415/3/50	220-240/1/50
	Sound Pressure Level	dBa	49	52	52	52	52	58
	Height	mm	540	651	651	753	753	753
	Width	mm	700	855	855	855	855	855
	Depth	mm	250	328	328	328	328	328
	Net Weight	kg	30	47	47	50	50	57
	Pipe connection - Liquid	mm	6.35	6.35	6.35	6.35	6.35	9.52
	Pipe connection - Gas	mm	12.70	12.70	12.70	15.88	15.88	15.88
	Piping Length	m	12	15	15	15	15	15
	Piping Elevation	m	5	8	8	8	8	8

Indoor Model Name		FLQN71EXV1	FLQN90EXV1	FLQN90EXV1	FLQN100EXV1	FLQN100EXV1	FLQN125EXV1	FHQN140CXV1
Outdoor Model Name		RQ71CXV1	RQ90DXV1	RQ90DXV1	RQ100DXV1	RQ100DXV1	RQ125DXV1	RQ140DXV1
Nominal Cooling Capacity	Btu/h	26000	31000	31000	38000	38900	45000	55000
	W	7620	9000	9000	11100	11400	13190	16119
Nominal Heating Capacity	Btu/h	26500	32000	33900	40000	42000	48000	55000
	W	7770	9360	9900	11700	12200	14070	16119
Nominal EER	W/W	2.81	3.16	3.33	2.76	2.89	2.92	2.51
Nominal COP	W/W	3.27	3.32	3.60	3.16	3.37	3.35	2.54
Indoor	Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Air Flow	CFM	640/560/460	840/753/669	840/753/669	1100/983/877	1100/983/877	1215/1082/959
	Sound Pressure Level	dBA	56/51/44	48/47/44	48/47/44	52/47/46	52/47/46	52/50/49
	Height	mm	218	260	260	260	260	285
	Width	mm	1080	1320	1320	1538	1538	1786
	Depth	mm	630	634	634	634	634	680
	Net Weight	kg	24	38	38	45	45	58
Outdoor	Power Supply	V/Ph/Hz	380-415/3/50	220-240/1/50	380-415/3/50	220-240/1/50	380-415/3/50	380-415/3/50
	Sound Pressure Level	dBA	58	58	58	58	60	65
	Height	mm	753	852	852	852	852	852
	Width	mm	855	1030	1030	1030	1030	1030
	Depth	mm	328	400	400	400	400	400
	Net Weight	kg	57	86	86	95	95	105
	Pipe connection - Liquid	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Pipe connection - Gas	mm	15.88	15.88	15.88	15.88	15.88	19.05
	Piping Length	m	15	45	45	45	45	35
	Piping Elevation	m	8	25	25	25	25	15

Ceiling Concealed C Series



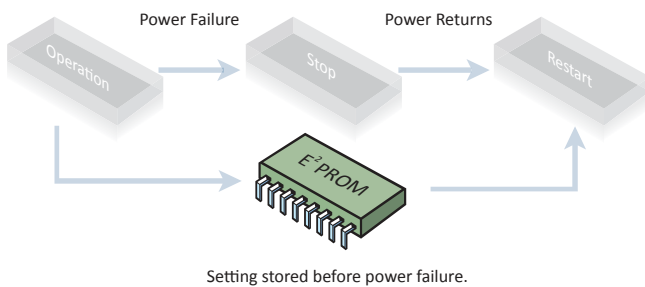
FDMRN25/35/50/60/71/100/125/140CXV1
FDMQN25/35/50/60/71/100/125/140CXV1

Excellent Air Distribution

The conditioned air can be distributed evenly to every corner of the room through ducting. This helps to create a pleasant environment and maintain comfort. Furthermore, multiple area can be conditioned simultaneously by using just one indoor unit.

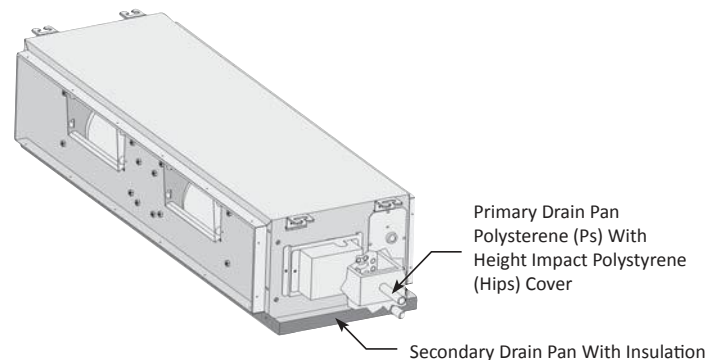
Auto Random Restart with Last-State-Memory

In the event of a sudden power failure during operation, unit restarts automatically in 64 different recovery timing patterns (within 180 seconds to 244 seconds) and the unit will operate based on the previous setting (operating mode, temperature setting and fan speed). This ensures that air conditioners in the same building resume randomly instead of all units resuming at the same time, preventing power surge after a blackout.



Double Protection Drainage System

The primary drain pan is designed with high thermal insulation material and moulded in gradient for better condensate water drainage. The extra secondary drain pan "built in" to the standard unit offers extra protection against possible water leaking problems.



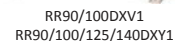
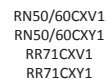
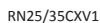
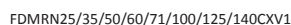
Flexibility In System Design

The unit offers fan motor that can operate up to 4 speeds, thus provide choices of external static pressure for designing ducting system.

Self Diagnosis Features

The microprocessor provides the possibility to detect and to diagnose any faults that occurs in the system. Faults are displayed as error code in the wired controller. This will ease the troubleshooting process.

* Optional ** For RR90/100DXV1, RR90/100/125/140DXV1

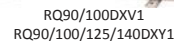
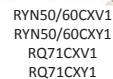
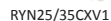
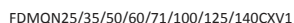


- ### Specification for Ceiling Concealed, Standard Static - Cooling

Indoor Model Name			FDMRN25CXV1	FDMRN35CXV1	FDMRN50CXV1	FDMRN50CXV1	FDMRN60CXV1	FDMRN60CXV1	FDMRN71CXV1
Outdoor Model Name			RN25CXV1	RN35CXV1	RN50CXV1	RN50CXV1	RN60CXV1	RN60CXV1	RR71CXV1
Nominal Cooling Capacity		Btu/h	9500	12500	18000	18000	21000	22860	26000
		W	2780	3660	5280	5280	6155	6700	7620
Nominal EER		W/W	2.96	2.91	3.13	3.04	3.15	3.03	2.73
Indoor	Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Air Flow	CFM	250/235/210	410/370/250	570/558/480	570/558/480	690/660/535	690/660/535	850/810/770/710
	External Static Pressure	Pa	29/20/10	29/20/10	29/20/10	29/20/10	29/20/10	29/20/10	98/78/68/59
	Sound Pressure Level	dBA	33/30/26	37/34/29	38/36/34	38/36/34	40/39/36	40/39/36	44/41/38/34
	Height	mm	261	261	261	261	261	261	285
	Width	mm	765	905	1065	1065	1200	1200	932
	Depth	mm	411	411	411	411	411	411	600
	Net Weight	kg	18	22	24	24	26	26	40
Outdoor	Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	220-240/1/50	380-415/3/50	220-240/1/50
	Sound Pressure Level	dBA	46	49	52	52	52	52	58
	Height	mm	540	540	651	651	753	753	753
	Width	mm	700	700	855	855	855	855	855
	Depth	mm	250	250	328	328	328	328	328
	Net Weight	kg	28	30	47	47	50	50	57
	Pipe connection - Liquid	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Pipe connection - Gas	mm	9.52	12.70	12.7	12.7	15.88	15.88	15.88
	Piping Length	m	12	12	15	15	15	15	15
	Piping Elevation	m	5	5	8	8	8	8	8

Indoor Model Name		FDMRN71CXV1	FDMRN100CXV1	FDMRN100CXV1	FDMRN100CXV1	FDMRN100CXV1	FDMRN125CXV1	FDMRN140CXV1
Outdoor Model Name		RR71CXV1	RR90DXV1	RR90DXV1	RR100DXV1	RR100DXV1	RR125DXV1	RR140DXV1
Nominal Cooling Capacity	Btu/h	27000	32000	33000	39000	39000	45000	55000
	W	7910	9380	9670	11430	11430	13190	16120
Nominal EER	W/W	2.88	3.07	3.03	2.82	2.82	2.87	3.01
Indoor	Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Air Flow	CFM	850/810/770/710	1280/1160/1050/920	1280/1160/1050/920	1280/1160/1050/920	1280/1160/1050/920	1430/1320/1230/1130
	External Static Pressure	Pa	98/78/68/59	118/96/78/61	118/96/78/61	118/96/78/61	118/96/78/61	147/126/109/92
	Sound Pressure Level	dBA	44/41/38/34	52/49/47/45	52/49/47/45	52/49/47/45	52/49/47/45	54/53/52/51
	Height	mm	285	315	315	315	315	378
	Width	mm	932	1257	1257	1257	1257	1299
	Depth	mm	600	638	638	638	638	541
	Net Weight	kg	40	49	49	49	49	50
Outdoor	Power Supply	V/Ph/Hz	380-415/3/50	220-240/1/50	380-415/3/50	220-240/1/50	380-415/3/50	380-415/3/50
	Sound Pressure Level	dBA	58	58	58	58	58	60
	Height	mm	753	852	852	852	852	852
	Width	mm	855	1030	1030	1030	1030	1030
	Depth	mm	328	400	400	400	400	400
	Net Weight	kg	57	86	86	95	95	98
	Pipe connection - Liquid	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Pipe connection - Gas	mm	15.88	15.88	15.88	15.88	15.88	19.05
	Piping Length	m	15	45	45	45	45	35
	Piping Elevation	m	8	25	25	25	25	15

* Optional ** For RQ90/100DXV1, RQ90/100/125/140DXY1



- | | | |
|--|--|----|
| › Excellent air distribution | › Flexibility in system design | RC |
| › Auto random restart with last-state-memory | › Self diagnosis features | |
| › Double protection drainage system | › Wired handset BRC51A61 (H/P) is supplied as standard | |

Indoor Model Name		FDMQN25CXV1	FDMQN35CXV1	FDMQN50CXV1	FDMQN50CXV1	FDMQN60CXV1	FDMQN60CXV1	FDMQN71CXV1	
Outdoor Model Name		RYN25CXV1	RYN35CXV1	RYN50CXV1	RYN50CXV1	RYN60CXV1	RYN60CXV1	RQ71CXV1	
Nominal Cooling Capacity	Btu/h	9500	12500	18000	18000	21000	22860	26000	
	W	2780	3660	5280	5280	6155	6700	7620	
Nominal Heating Capacity	Btu/h	9500	12000	18500	18500	22000	23200	26000	
	W	2780	3520	5420	5420	6450	6800	7620	
Nominal EER	W/W	2.96	2.91	3.13	3.04	3.15	3.03	2.73	
Nominal COP	W/W	3.52	3.18	3.55	3.59	3.39	3.23	3.27	
Indoor	Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
	Air Flow	CFM	250/235/210	410/370/250	570/558/480	570/558/480	690/660/535	690/660/535	850/810/770/710
	External Static Pressure	Pa	29/20/10	29/20/10	29/20/10	29/20/10	29/20/10	29/20/10	98/78/68/59
	Sound Pressure Level	dBA	33/30/26	37/34/29	38/36/34	38/36/34	40/39/36	40/39/36	44/41/38/34
	Height	mm	261	261	261	261	261	261	285
	Width	mm	765	905	1065	1065	1200	1200	932
	Depth	mm	411	411	411	411	411	411	600
	Net Weight	kg	18	22	24	24	26	26	40
Outdoor	Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	220-240/1/50	380-415/3/50	220-240/1/50
	Sound Pressure Level	dBA	46	49	52	52	52	52	58
	Height	mm	540	540	651	651	753	753	753
	Width	mm	700	700	855	855	855	855	855
	Depth	mm	250	250	328	328	328	328	328
	Net Weight	kg	28	30	47	47	50	50	57
	Pipe connection - Liquid	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Pipe connection - Gas	mm	9.52	12.70	12.70	12.70	15.88	15.88	15.88
	Piping Length	m	12	12	15	15	15	15	15
	Piping Elevation	m	5	5	8	8	8	8	8

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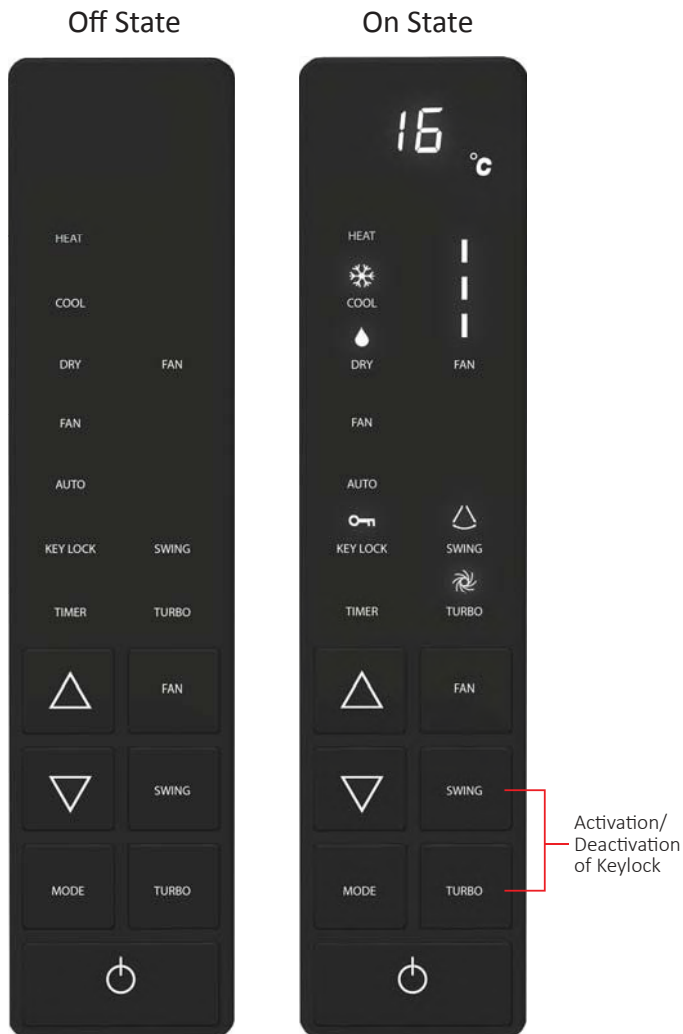
Floor Standing A Series



FVRN71/100/125/140AXV1
FVQN71/100/125/140AXV1

Control panel

Stylish black control panel with large buttons for ease of use and white LED light for crisp clear display. Control of floor standing by pressing on control panel buttons or by using wireless controller.



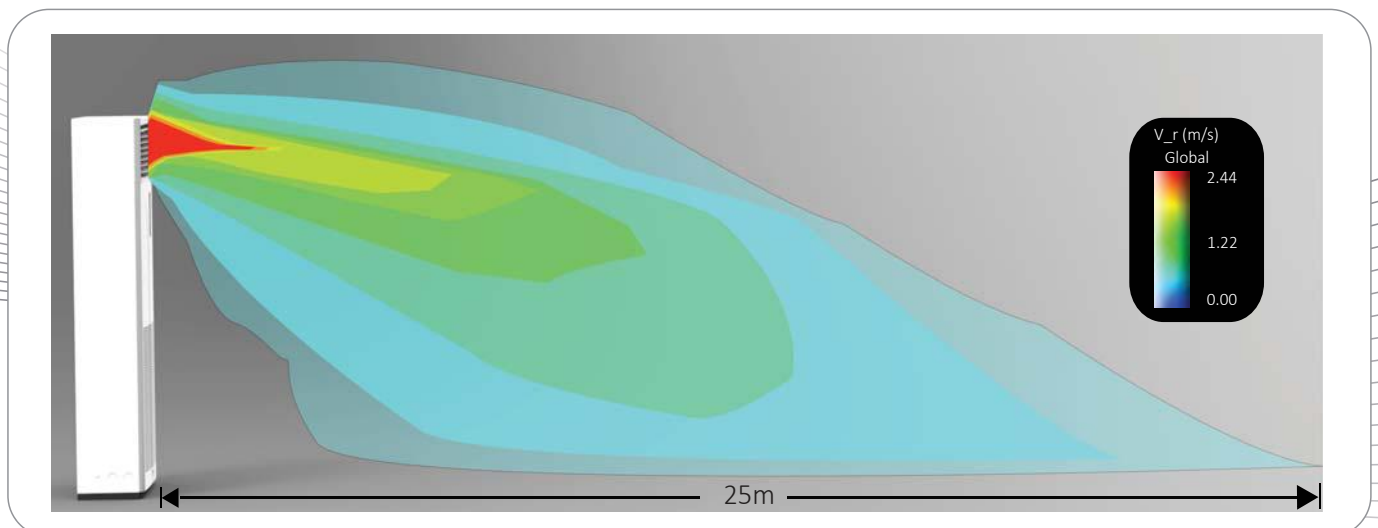
The floor standing unit is incorporated with IR sensor for usage with wireless controller (wireless controller comes as standard)

Keylock function

Keylock for prevention of setting change by unauthorized personnel. Activation and deactivation of keylock by pressing 'SWING' and 'TURBO' together for 5 seconds.

Floor standing air flow

The floor standing is able to achieve high air flow, long air throw distance up to 25m*.



* Note:
Based on size 140

Safety

Safety cache during removal of washable saranet filter for prevention of un-intentional access to electrical and mechanical parts.



Indoor Air Quality (IAQ)

Optional plasma active indoor air quality (IAQ).



Condensate water drain pump

Space in the unit below the fan able to accommodate condensate water drain pump, depending on the size of the drain pump. This way, drain pump will be hidden from view, maintaining the aesthetic outlook of floor standing to match the interior.

The recommended condensate water drain pump is model DC050VEA. For more information, please refer to PCXAWP leaflet.

* Condensate water drain pump is optional, separately purchased and field installed.



model DC050VEA





* Optional

A tall, white, vertical air conditioning unit with a black base and a control panel. The unit has a large, rectangular air filter at the top and a large, rectangular air filter at the bottom. The control panel is located in the middle of the unit, featuring a digital display and several buttons. The unit is shown against a plain white background.

- 

Indoor Model Name		FVRN71AXV1	FVRN71AXV1	FVRN100AXV1	FVRN125AXV1	FVRN140AXV1	
Outdoor Model Name		RR71CXV1	RR71CXY1	RR100DXY1	RR125DXY1	RR140DXY1	
Nominal Cooling Capacity		Btu/h	28000	28000	40000	45000	55000
		kW	8.21	8.21	11.72	13.19	16.12
Nominal EER		W/W	2.89	2.89	2.89	2.82	2.94
Indoor	Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Air Flow	cfm	675/625/530	675/625/530	1035/945/845	1035/935/835	1170/1085/985
	Sound Pressure Level	dBA	44/42/39	44/42/39	49/47/44	50/48/46	54/53/51
	Height	mm	1850	1850	1850	1850	1850
	Width	mm	600	600	600	600	600
	Depth	mm	270	270	350	350	350
	Net Weight	kg	42	42	45	48	51
Outdoor	Power Supply	V/Ph/Hz	220-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Sound Pressure Level	dBA	58	58	58	60	65
	Height	mm	753	753	852	852	852
	Width	mm	855	855	1030	1030	1030
	Depth	mm	328	328	400	400	400
	Net Weight	kg	57	57	95	98	105
	Pipe Connection- Liquid	mm	9.52	9.52	9.52	9.52	9.52
	Pipe Connection- Gas	mm	15.88	15.88	15.88	15.88	19.05
Max. Allowable Length	m	45	45	45	45	45	
Max. Allowable Elevation	m	25	25	25	25	25	

Indoor Model Name		FVQN71AXV1	FVQN100AXV1	FVQN125AXV1	FVQN140AXV1
Outdoor Model Name		RQ71CXV1	RQ100DXY1	RQ125DXY1	RQ140DXY1
Nominal Cooling Capacity	Btu/h	28000	40000	45000	55000
	kW	8.21	11.72	13.19	16.12
Nominal EER	W/W	2.89	2.89	2.82	2.94
Nominal Heating Capacity	Btu/h	27500	42000	46000	54500
	kW	8.06	12.31	13.48	16.00
Nominal COP	W/W	3.20	3.14	3.02	3.01
Indoor	Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
	Air Flow	cfm	675/625/530	1035/945/845	1035/935/835
	Sound Pressure Level	dBA	44/42/39	49/47/44	50/48/46
	Height	mm	1850	1850	1850
	Width	mm	600	600	600
	Depth	mm	270	350	350
	Net Weight	kg	42	45	48
Outdoor	Power Supply	V/Ph/Hz	220-240/1/50	380-415/3/50	380-415/3/50
	Sound Pressure Level	dBA	58	58	60
	Height	mm	753	852	852
	Width	mm	855	1030	1030
	Depth	mm	328	400	400
	Net Weight	kg	57	95	98
	Pipe Connection- Liquid	mm	9.52	9.52	9.52
	Pipe Connection- Gas	mm	15.88	15.88	15.88
Max. Allowable Length	m	45	45	45	
Max. Allowable Elevation	m	25	25	25	



Ceiling
Concealed
D Series



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Ducted
Split
D & E
Series



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Air-Cooled
Rooftop
Packaged
A-Series



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Air-Cooled
Rooftop
Packaged
B-Series



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Commercial/ Industrial Series

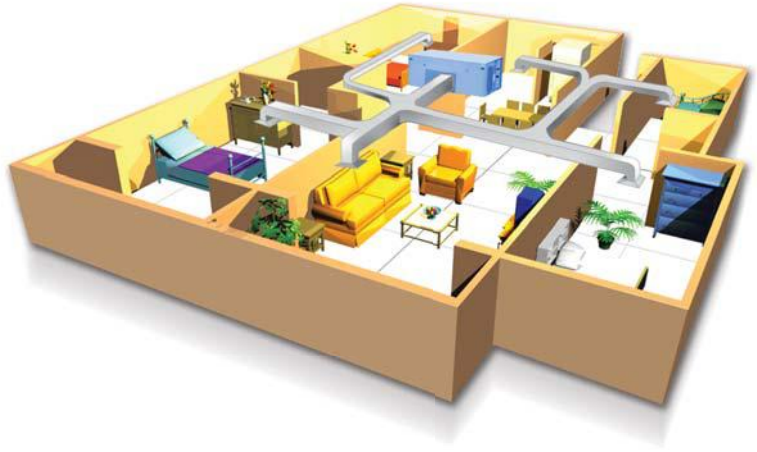
Ceiling Concealed D Series



FD(Y)MP75/100DXV1

Hide Away Operation

Installed concealed above the ceiling, FD(Y)MP-DXV1 is designed to create more comfortable and healthier indoor air climate, while remaining hide away. This allows user to enjoy conditioned air without sacrificing room space or interior design creativity.



Easier Serviceability

With the concept of easy serviceability in mind, FD(Y)MP-DXV1 series is designed for easy access to the internal components. The internal components, such as fan motor or fan blower, of the unit can be easily accessed for servicing through both sides or bottom of the unit.



Higher Level Of Protection

Each FD(Y)MP-DXV1 series is incorporated with a unique safety feature, i.e a float switch, to protect the unit from possible problems of condensate water over flow inside the unit. Once the condensate water reaches critical level, the level switch will be activated and signal will be sent to microprocessor controller to stop the compressor as well to send an error message to the wired controller, alerting the owner, for further action.

Flexibility In System Design

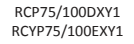
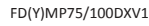
The unit offers fan motor that can operate up to 4 speeds, thus provide choices of external static pressure for designing ducting system.

Standard Wired Handset



BRC51A61 (H/P)
BRC51A62 (C/O)

FD(Y)MP-DXV1 series is supplied standard with BRC51A61/BRC51A62 which offers wide range of control features including 7 days programable timer, 24 hours timer setting, self diagnosis error code display and more.



- ### Specification for Ceiling Concealed - Cooling Only

Specification for Ceiling Concealed- Cooling and Heating

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Ducted Split D & E Series



FDP125/150DXY1, FDYP125/150EXY1
2FDP150/200DXY1, 2FDYP150/200EXV1
(2-4)FGP250/300/400/500DXY1
(2-4)FGYP250/300/350/400/450/500/600EXY1

Modular Combination

With only 4 different capacities outdoors, Daikin ducted split product range is ranking up to an individual indoor unit at approximately 600MBH.

Quality you can depend on

Daikin ducted split quality is ensured & qualified by specific testing method as following:

- 100% coil leak test by helium testing method
- Copper tubes were tested at burst pressure, where it is at least 3 times the refrigerant operating pressure.
- Every components being used in our unit are tested, at factory test lab.
- Every unit receives a 100% unit run test before leaving the production line to make sure it lives up to Daikin requirement.

Cabinet Construction

Both indoor and outdoor unit enclosure is made from weatherproofed electro galvanized mild steel, and it is coated with epoxy polyester powder coating for severe external conditions.

Service Panel is available at the convenience side for both indoor and outdoor.

Indoor Air Throw Direction

Convertible discharge air direction at indoor unit has made it versatile to various architectural designs.

Changeable Drive Package

Non-standard external static pressure & airflow requirement can be sized by changing the factory fitted drive package. (limited for belt drive model only)

Easy To Reach Access Valve

Discharge line and suction line access valve is accessible without opening the unit casing.

Insulation

Fire-resistant Polyethylene is used at every possible condensate panel to prevent all forms of water or moisture penetration. Polyethylene, which is also a type of Closed Cell Foam Insulation (CCF) has offered the following advantages:

- Durable external surface that resists dirt tough and resilient
- Higher degree of puncture resistance when compared to fiberglass
- Easily cleaned surface (if necessary) to further resist microbial growth

Refrigeration

The outdoor units come with factory Nitrogen holding charge. Installer will need to charge the R-407C refrigerant at site according to the manual recommendation.

Components

- Expansion device: thermal expansion valves are supplied as standard. Double TXV is used in heatpump model to optimize the performance for both cooling and heating.
- Compressor: Each high efficiency scroll type compressor is hermetically sealed, quiet running and supported on rubber mounts to minimize vibration.
- Indoor Fan: A dynamically balanced forward curved fan with a field changeable pulley package, in order to match the designed supply air requirements.
- Condenser fan blade: Use of 32" and 36" propeller fan blade has effectively reduce the sound pressure level.
- Condenser fan motor: IP20 for RCP75/100DXY1 and RCYP75/100EXY1 while IP54 for RCP125/150DXY1 and RCYP125/150EXY1.

Long Piping Application

Standard maximum piping length of Daikin ducted split is up to 35m for Cooling Only model and 45m for heatpump model. However, long piping spec for Cooling Only model can be specified for stringent project requirement.

Safety Features

- High Pressure and Low Pressure protection.
- Compressor & motor current overload protection.
- Sensor fault indication.
- Phase sequencer is used to detect for any wrong phase and phase loss during installation and operation.

Command Performance

Standard units are equipped with microprocessor controller and it is equipped with following functions:

- Mode selection
- Temperature Setting
- Timer
- Error code display

Auto-Random Restart

Whenever unit stop due to power failure during operation unit automatically restarts at last setting condition once the power is resumed. However, the compressors will restart randomly if more than one unit is installed and share the same phase of power. Option is provided to cancel this feature.

Standard Wired Handset

Single condenser system
- FD(Y)P



BRC51B63 (H/P)
BRC51B64 (C/O)

Multi condenser system
- 2FD(Y)P, 2FG(Y)P, 3FGYP, 4FG(Y)P



BRC51C61 (H/P & C/O)

Ducted Split D Series



FDP125/150DX1



2FDP150/200DX1
(2-4)FGP250/300/400/500DX1



RCP75/100/125/150DX1

- › Wide range of product
- › Modular combination of single indoor unit to multiple outdoor units
- › Partial loading features for units with more than 2 outdoor units
- › Convertible air discharge
- › Changeable drive package (field supplied) for belt driven models
- › Single condenser system: Wired handset BRC51B64 (C/O) is supplied as standard
- › Multi condenser system: Wired handset BRC51C61 (H/P & C/O) is supplied as standard

Specification for Ducted Split - D Series - Cooling

Indoor Model Name		FDP125DX1	FDP150DX1	2FDP150DX1	2FDP200DX1
Outdoor Model Name		RCP125DX1	RCP150DX1	RCP75DX1 x 2	RCP100DX1 x 2
Nominal Cooling Capacity	Btu/h	108000	145000	146000	182000
	W	31650	42500	42790	53340
Nominal EER	W/W	2.62	2.62	2.75	2.38
Indoor	Power Supply	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
	Air Flow	CFM	3750	4500	6000
	External Static Pressure	Pa	150	150	150
	Sound Pressure Level	dBA	58	59	60
	Height	mm	710	710	821
	Width	mm	1694	1973	1113
	Depth	mm	775	775	1064
	Net Weight	kg	155	175	248
Outdoor	Power Supply	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
	Sound Pressure Level	dBA	66	67	64
	Height	mm	1041	1142	1041
	Width	mm	1083	1083	981
	Depth	mm	1083	1083	981
	Net Weight	kg	197	268	170
	Pipe connection - Liquid	mm	15.88	15.88	12.70
	Pipe connection - Gas	mm	34.92	34.92	25.40
	Maximum Allowable Length	m	40	40	40
	Maximum Allowable Elevation	m	20	20	20

Indoor Model Name		2FGP250DX1	2FGP300DX1	4FGP400DX1	4FGP500DX1
Outdoor Model Name		RCP125DX1 x 2	RCP150DX1 x 2	RCP100DX1 x 4	RCP125DX1 x 4
Nominal Cooling Capacity	Btu/h	216000	290000	364000	432000
	W	63310	84990	106680	126610
Nominal EER	W/W	2.47	2.50	2.37	2.35
Indoor	Power Supply	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
	Air Flow	CFM	7500	9000	12000
	External Static Pressure	Pa	200	200	300
	Sound Pressure Level	dBA	62	65	66
	Height	mm	922	922	1115
	Width	mm	1202	1405	1596
	Depth	mm	1226	1226	1462
	Net Weight	kg	321	394	470
Outdoor	Power Supply	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
	Sound Pressure Level	dBA	66	67	64
	Height	mm	1041	1142	1041
	Width	mm	1083	1083	981
	Depth	mm	1083	1083	981
	Net Weight	kg	197	268	184
	Pipe connection - Liquid	mm	15.88	15.88	15.88
	Pipe connection - Gas	mm	34.92	34.92	28.58
	Maximum Allowable Length	m	40	40	40
	Maximum Allowable Elevation	m	20	20	20

NOTE : The condensing unit is shipped with only nitrogen holding charge. Refrigerant charging is required at site.

Ducted Split E Series



FDYP125/150EXY1



2FDYP150/200EXY1
(2-4)FGYP250/300/350/400/450/500/600EXY1



RCYP75/100/125/150EXY1

- › Wide range of product
- › Modular combination of single indoor unit to multiple outdoor units
- › Partial loading features for units with more than 2 outdoor units
- › Convertible air discharge
- › Changeable drive package (field supplied) for belt driven models
- › Single condenser system: Wired handset BRC51B63 (H/P) is supplied as standard
- › Multi condenser system: Wired handset BRC51C61 (H/P & C/O) is supplied as standard

Specification for Ducted Split - E Series - Cooling and Heating

Indoor Model Name		FDYP125EXY1	FDYP150EXY1	2FDYP150EXY1	2FDYP200EXY1	2FGYP250EXY1	2FGYP300EXY1
Outdoor Model Name		RCYP125EXY1	RCYP150EXY1	RCYP75EXY1 x 2	RCYP100EXY1 x 2	RCYP125EXY1 x 2	RCYP150EXY1 x 2
Nominal Cooling Capacity	Btu/h	108000	145000	146000	182000	216000	290000
	W	31650	42500	42790	53340	63310	84990
Nominal Heating Capacity	Btu/h	124000	150000	162000	218000	248000	300000
	W	36340	43960	47480	63890	72680	87920
Nominal EER	W/W	2.61	2.79	2.75	2.30	2.50	2.72
Nominal COP	W/W	3.27	3.13	2.97	2.98	3.13	3.05
Indoor	Power Supply	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Air Flow	CFM	3750	4500	4500	6400	9000
	External Static Pressure	Pa	150	150	150	200	200
	Sound Pressure Level	dBA	58	59	59	61	66
	Height	mm	710	710	710	885	1231
	Width	mm	1694	1973	1973	1794	1766
	Depth	mm	775	775	775	850	1069
	Net Weight	kg	155	175	175	220	343
Outdoor	Power Supply	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Sound Pressure Level	dBA	66	67	64	64	67
	Height	mm	1041	1142	1041	1041	1142
	Width	mm	1083	1083	981	981	1083
	Depth	mm	1083	1083	981	981	1083
	Net Weight	kg	197	268	170	184	268
	Pipe connection - Liquid	mm	15.88	15.88	12.70	15.88	15.88
	Pipe connection - Gas	mm	34.92	34.92	25.40	28.58	34.92
	Maximum Allowable Length	m	40	40	40	40	40
	Maximum Allowable Elevation	m	20	20	20	20	20

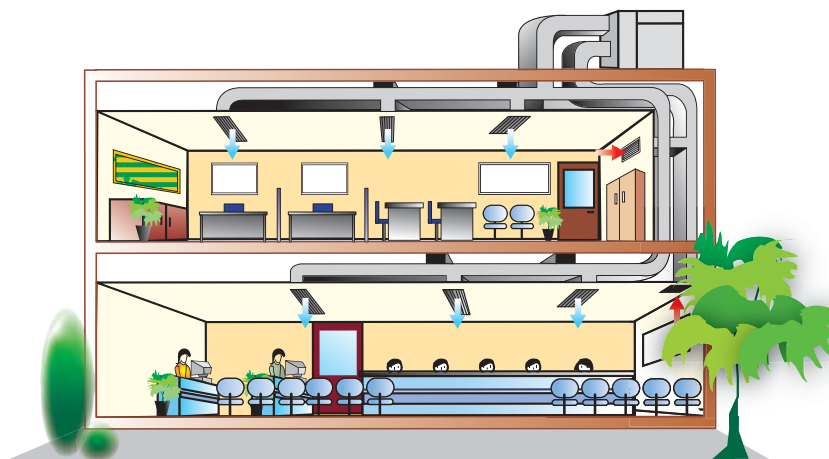
Indoor Model Name		3FGYP300EXY1	3FGYP350EXY1	4FGYP400EXY1	3FGYP450EXY1	4FGYP500EXY1	4FGYP600EXY1
Outdoor Model Name		RCYP100EXY1 x 3	RCYP100EXY1 + [RCYP125EXY1] x 2	RCYP100EXY1 x 4	RCYP150EXY1 x 3	RCYP125EXY1 x 4	RCYP150EXY1 x 4
Nominal Cooling Capacity	Btu/h	273000	307000	364000	432000	435000	580000
	W	80010	89980	106680	126610	127490	169990
Nominal Heating Capacity	Btu/h	327000	357000	436000	450000	496000	600000
	W	95840	104630	127780	131890	145370	175850
Nominal EER	W/W	2.28	2.41	2.30	2.70	2.49	2.69
Nominal COP	W/W	2.95	3.04	2.98	3.05	3.09	3.01
Indoor	Power Supply	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Air Flow	CFM	9000	10500	12000	13500	15000
	External Static Pressure	Pa	200	200	200	250	300
	Sound Pressure Level	dBA	66	66	66	68	70
	Height	mm	1231	1486	1486	1486	1918
	Width	mm	1766	2022	2174	2174	2174
	Depth	mm	1069	1069	1336	1336	1775
	Net Weight	kg	343	440	513	564	991
Outdoor	Power Supply	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Sound Pressure Level	dBA	64	64 / [66]	64	67	66
	Height	mm	1041	1041 / [1041]	1041	1142	1041
	Width	mm	981	981 / [1083]	981	1083	1083
	Depth	mm	981	981 / [1083]	981	1083	1083
	Net Weight	kg	184	184 / [197]	184	268	197
	Pipe connection - Liquid	mm	15.88	15.88	15.88	15.88	15.88
	Pipe connection - Gas	mm	28.58	28.58 / [34.92]	28.58	34.92	34.92
	Maximum Allowable Length	m	40	40	40	40	40
	Maximum Allowable Elevation	m	20	20	20	20	20

NOTE : The condensing unit is shipped with only nitrogen holding charge. Refrigerant charging is required at site.

Air-Cooled Rooftop Packaged A-Series



UAT(Y)P60/80/100/120/150/200/250/300/360/420AGXY1



Cabinet & Base Construction

Daikin rooftop is equipped with a solid base foundation and compact cabinet. The weatherproofed electro galvanized mild steel casing is coated with epoxy polyester powder for protection against corrosion.

All Daikin rooftop designs were rigorously rain tested at the factory to ensure the water integrity.

Insulation

10mm thickness, fire-resistant Polyethylene is used at every possible condensate panel to prevent all forms of water or moisture penetration. Polyethylene, which is also a type of Closed Cell Foam (CCF) insulation has offered the following advantages:

- Durable external surface that resists dirt tough and resilient.
- Higher degree of puncture resistance when compared to fiberglass.
- Easily cleaned surface (if necessary) to further resist microbial growth.

Components

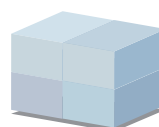
- Expansion device: Optimized capillary tube is used for better performance. However, thermal expansion valves spec can be specified in any project requirement.
- Compressor: Each high efficiency scroll type compressor is hermetically sealed, quiet running and supported on rubber mounts to minimize vibration.
- Indoor Fan: A dynamically balanced forward curved fan with a field changeable pulley package, in order to match the designed supply air requirements.
- Outdoor Fan: IP54 rated condenser fan is being used for UAT(Y)P250/300/360/420AGXY1.

Safety Features

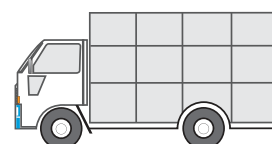
- High Pressure and loss of refrigerant protection.
- Compressor & motor current overload protection.
- Sensor fault indication.
- Minimum compressor's running time to ensure oil return.
- Phase sequencer is used to detect for any wrong phase and phase loss during installation and operation.

Flat Top Design

Unit's flat top design allows the unit to be stacked up at warehouse or even during transportation, resulting in maximum utilization of warehouse and container space.



Stackable



Auto-Random Restart

Whenever unit stop due to power failure during operation unit automatically restarts at last setting condition once the power is resumed. However, the compressors will restart randomly if more than one unit is installed and share the same phase of power. Option is provided to cancel this feature.

Microprocessor Unit Controls

- Standard units are equipped with microprocessor controller and every unit comes with a microprocessor operated handset. Basic functions of these handset are:
 - Mode selection.
 - Temperature Setting.
 - Timer (delay timer for BRC51B and real time timer for BRC51C).
 - Error code display.

Refrigeration System

- The UAT(Y)P-A series are factory charged with zero ozone depleting potential HFC refrigerant, R407-C.

Standard Wired Handset

Single compressor system
- UAT(Y)P60-120AGXY1



BRC51B63 (H/P)
BRC51B64 (C/O)

Multi compressor system
- UAT(Y)P150-420AGXY1



BRC51C61 (H/P & C/O)

Air-Cooled Rooftop Packaged A Series



UATP60/80/100/120/150/200/250/300/360/420AGXY1

- › Flat top design
- › Microprocessor controlled
- › Partial loading (for 2 compressor system)
- › Easy installation
- › Single compressor system: Wired handset BRC51B64 (C/O) is supplied as standard
- › Multi compressor system: Wired handset BRC51C61 (H/P & C/O) is supplied as standard

Specification for Rooftop A Series - Cooling

Model Name			UATP60AGXY1	UATP80AGXY1	UATP100AGXY1	UATP120AGXY1	UATP150AGXY1
Nominal Cooling Capacity	Btu/h		59000	72000	95000	110000	140000
	W		17291	21101	27840	32238	41030
Nominal EER	W/W		2.94	2.43	2.40	2.65	2.39
Evap.	Air Flow	CFM	1800	2826	3532	3600	5651
	External Static Pressure	Pa	98	98	98	98	196
Cond.	Power Supply	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Sound Pressure Level	dBA	63	65	66	68	70
Height	mm		1000	1000	1000	1000	1200
Width	mm		1100	1300	1300	1300	1990
Depth	mm		1530	1530	1530	1530	1800
Net Weight	kg		295	370	400	425	665

Model Name			UATP200AGXY1	UATP250AGXY1	UATP300AGXY1	UATP360AGXY1	UATP420AGXY1
Nominal Cooling Capacity	Btu/h		190000	230000	275000	331000	415000
	W		55684	67406	80600	97007	121624
Nominal EER	W/W		2.22	2.35	2.13	2.32	2.49
Evap.	Air Flow	CFM	6710	8000	9600	11000	12500
	External Static Pressure	Pa	196	294	294	294	294
Cond.	Power Supply	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Sound Pressure Level	dBA	70	74	74	80	80
Height	mm		1200	1735	1735	1974	1974
Width	mm		1990	2250	2250	2252	2252
Depth	mm		1800	2800	2800	3180	3180
Net Weight	kg		765	1200	1350	1510	1600

Air-Cooled Rooftop Packaged A Series



UATYP60/80/100/120/150/200/250/300/360/420AGXY1

- › Flat top design
- › Microprocessor controlled
- › Partial loading (for 2 compressor system)
- › Easy installation
- › Single compressor system: Wired handset BRC51B63 (H/P) is supplied as standard
- › Multi compressor system: Wired handset BRC51C61 (H/P & C/O) is supplied as standard

Specification for Rooftop A Series - Cooling and Heating

Model Name		UATYP60AGXY1	UATYP80AGXY1	UATYP100AGXY1	UATYP120AGXY1	UATYP150AGXY1
Nominal Cooling Capacity	Btu/h	56000	72000	88000	100000	149000
	W	16413	21101	25790	29307	43668
Nominal Heating Capacity	Btu/h	69000	77000	102000	122000	160000
	W	20222	22566	29893	35755	46891
Nominal EER	W/W	2.47	2.51	2.38	2.29	2.64
Nominal COP	W/W	3.07	2.99	3.05	3.17	2.98
Evap. Air Flow	CFM	1800	2826	3532	3600	5651
	External Static Pressure	Pa	98	98	98	196
Cond. Power Supply	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Sound Pressure Level	dBA	63	65	66	70
Height	mm	1000	1000	1000	1000	1200
Width	mm	1100	1300	1300	1300	1990
Depth	mm	1530	1530	1530	1530	1670
Net Weight	kg	320	385	415	440	700

Model Name		UATYP200AGXY1	UATYP250AGXY1	UATYP300AGXY1	UATYP360AGXY1	UATYP420AGXY1
Nominal Cooling Capacity	Btu/h	190000	230000	268200	345000	374000
	W	55684	67406	78600	101110	109609
Nominal Heating Capacity	Btu/h	230000	255000	299500	349000	431000
	W	67406	74733	87780	102290	126314
Nominal EER	W/W	2.63	2.31	2.17	2.34	2.27
Nominal COP	W/W	3.32	2.85	2.73	2.45	2.70
Evap. Air Flow	CFM	6710	8000	9600	11000	12500
	External Static Pressure	Pa	196	294	294	294
Cond. Power Supply	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Sound Pressure Level	dBA	70	74	80	80
Height	mm	1200	1735	1735	1974	1974
Width	mm	1990	2250	2250	2252	2252
Depth	mm	1800	2800	2800	3180	3180
Net Weight	kg	800	1200	1350	1510	1600

Air-Cooled Rooftop Packaged B-Series



UATYQ250/350/450/550/600/700MCY1

General Features:

Package Unit

Daikin's new range of rooftop packaged units has been developed specifically to suit commercial applications and are designed to be easy to install, requiring only ducting (and associated fittings), power/ control wiring and drain piping. Along with the light grey colour, the flat top and compact design gives an aesthetic and neat appearance when installed in line of sight. The unit cabinet is made of powder coated sheet metal especially suitable for outdoor use. All parts of the structure are fastened with corrosion resistant screws and bolts.

Base Beam

The base beams are fixed and provide a rigid foundation for the entire unit. It is also designed to allow mounting on a roof curb, the dimension of the roof curb should be followed strictly in accordance with the installation manual.

Flexible Air Supply Utilizing Variable Pitch Pulley

Utilizing the Variable Pitch Pulley (VPP) driven supply fan, VPP can be adjusted on site to meet a wide range of required air flow and ESP, without the need to change the pulley and belt.

Convertible Return And Supply Air

Unit can be easily converted from horizontal to vertical (downward) supply and return air duct configuration by relocating the panels and supply air fan mounting.

Scroll Compressor

Units are equipped with high efficiency and reliable scroll compressors. Each compressor is mounted on rubber vibration isolators in order to reduce the noise level and vibration transmissions.

Slots For 2 Inches Return Air Filters

A 2 inches rail is provided as standard in instances where a field supplied filter casement need to be installed.

Higher Energy Efficiency Rating

The UATYQ-MCY1 series is designed in line with market requirement for better energy saving. Its' performance is claimed to be among the best in the market.

Components:

Compressor

Compressor used in UATYQ-MCY1 series Packaged Units are hermetically sealed scroll type. All the compressors are provided with an internal current overload protection.

Condenser & Evaporator

Condenser coils are manufactured from seamless inner grooved copper tubes mechanically bonded to aluminium fins to ensure optimum heat transfer. All coils are tested against by Nitrogen holding at 450psig and highly precise Helium leak test at 235psig.

Hydrophilic Gold Fin coating (NA549) is offered as standard, which has longer life span under corrosive environment.

Condenser Fan & Motor

Fans are of propeller type, direct driven by weatherproof electrical induction motors. Condenser fan motor has class F insulation and splash-proof enclosure, IP55*.

* UATYQ600/700MCY1: IP55

* UATYQ250/350/450/550MCY1: IP44

Evaporator Fan and Drive

Blower is a DWDI centrifugal, forward curved type. It is mechanically and dynamically balanced and being mounted on a rigid shaft in self aligned bearing block. The motor has a class F insulation, and splash proof enclosure of IP55.

Refrigerant Circuit

Each refrigerant circuit shall have independent electronic expansion devices, HP/LP switch and refrigerant line service pressure ports as standard factory installed

Expansion Device

Electronic Expansion Valve is being used to ensure accurate control of refrigerant flow, especially during high ambient condition

Insulation

ALL possible areas of condensation to happen are insulated by PE, Polyethelene. Panel insulation is 10mm thickness while drain pan insulation is 5mm thickness.

Control

Units shall be completely factory supplied with an integrated controlled Module, with built in resident control algorithms to make decide heating, cooling, or ventilating operations in response to electronic signals from indoor & outdoor temperature sensors.

CO₂ Sensor

Field specified CO₂ sensor can be easily plug on the control board's dry contact, which is come as standard.

Rooftop Panel-Handset

Rooftop Panel comprises all starting, operating and safety controls setting. It is connected to the IC module PCB and supplied as standard.

• Optional Features • 3rd Party Thermostat

For application that requires uniform thermostat outlook with other electrical appliances. 3rd Party thermostat can be connected to the factory supplied module via the dry contact available on PCB board.

Basic BMS Connection

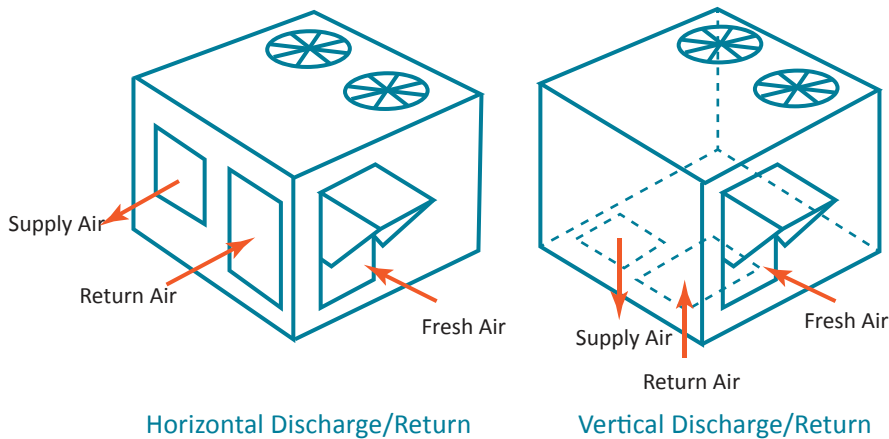
Unit's standard PCB board provides dry contact for basic BMS connection. Input signal will go to dry contact ON/OFF, COOL/HEAT, and 4 to 20 mA temperature adjuster while output signal will come from ON/OFF, COOL/HEAT, ALARM and DEFROST dry contact.

Economizer

Field installed economizer is supplied from factory as an accessory. It is also designed to cater for horizontal or vertical down throw air discharge orientation.

Economizer

Economizer option is available as a separate kit. It is also designed to cater for horizontal or vertical down throw air supply/return.



Features:

Free Cooling & Fresh Air Intake

- Depending on the outdoor ambient, the opening of damper provides free cooling.
- Minimum opening of damper allows intake of constant fresh air.

Easy Installation

- Easily installed in the UATYQ series rooftop units.
- No additional wiring is required.

Indoor Air Quality Sensor (field installed)

- The built-in controller is ready to be used with field installed CO₂ sensor for better indoor air quality.

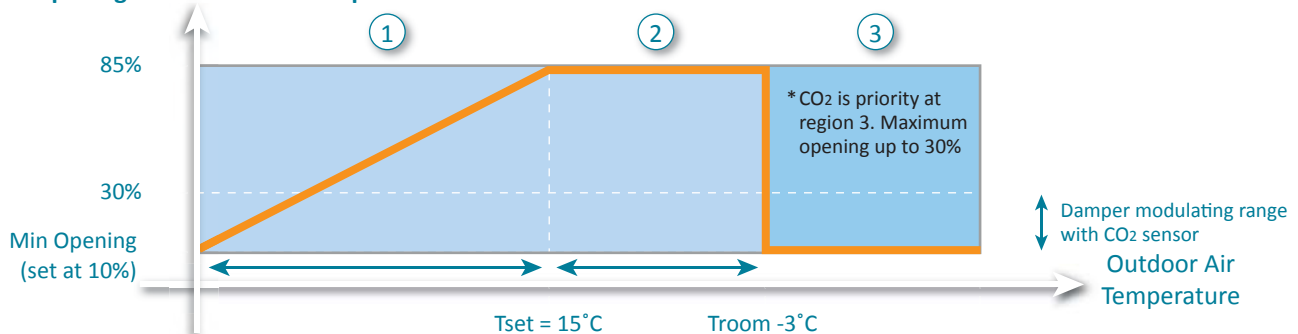
Fresh Air and Return Air Damper

- Dampers modulation are controlled by reliable spring return motor.
- Designed with extruded aluminium blades and frame, it is always light and it has low air leakage.

Controller Design Concept

- Intelligent control damper opening based on outdoor temperature

% Opening of Outdoor Air Damper



Note: Tset = Set Temperature (through panel setting) Troom = Return Air Temperature

① Region 1: Total Free Cooling (Comp OFF)

ALL compressor is OFF at this region, no mechanical cooling is needed as outdoor air is very cold.

Outdoor Air Damper will modulate to bring in certain amount of outdoor air to mix with return air which is being controlled by Return Air Damper at the other entry.

Outdoor Air opening modulation could be from preset Min Outdoor Air (settable at rooftop panel) to 85%.

② Region 2 : Transition region between region 1 and region 2

Outdoor Air Damper Opening will be at maximum to have intake of outside air to cool down the room together with mechanical cooling in order to achieve the required cooling capacity. Unit usually runs at partial load in this region, thus reduces power consumption

③ Region 3 : Mechanical cooling (Comp ON) with fresh air ventilation

Outdoor Air Damper Opening is at minimum for fresh air intake. If CO₂ sensor is installed, the damper will modulate between minimum opening to 30% opening depending on the CO₂ level in the room

[illegible]

Rooftop panel

- › Flat top design
- › High ambient application
- › Microprocessor controlled
- › Partial loading (for 2 compressor system)
- › Easy installation
- › Wide operating range (0°C - 52°C)
- › Wired handset rooftop panel is supplied as standard

Model Name		UATYQ250MCY19	UATYQ350MCY1	UATYQ450MCY1	UATYQ550MCY1	UATYQ600MCY1	UATYQ700MCY1	
Nominal Cooling Capacity		Btu/h	93300	121400	152600	190000	228000	247700
		W	27340	35580	44720	55690	66820	72600
Nominal Heating Capacity		Btu/h	85000	118700	142600	184000	210500	237500
		W	24910	34790	41790	53930	61690	69610
Nominal EER (Gross)		W/W	3.36	3.30	3.43	3.33	3.40	3.36
Nominal COP (Net)		W/W	3.40	3.21	3.25	3.47	3.32	3.25
Evap.	Air Flow	CFM	3300	4300	5650	6700	7300	8300
	External Static Pressure	Pa	147	147	147	206	196	206
Cond.	Power Supply	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Sound Pressure Level	dBA	82	83	83	87	90	90
Height		mm	1150	1028	1130	1048	1302	1454
Width		mm	1638	2209	2209	2209	2209	2209
Depth		mm	2063	2113	2113	2670	2670	2670
Net Weight		kg	445	580	610	830	880	1020

Indoor Unit			ECONO250AY1	ECONO350AY1	ECONO450AY1	ECONO550AY1	ECONO6000AY1	ECONO700AY1	
Packing Dimension	Height	mm	534	534	534	534	534	534	
	Width	mm	1440	1430	1430	1458	1458	1458	
	Depth	mm	1144	1124	1124	1564	1564	1564	
Weight	Net	kg	51	42	43	53	54	69	
	Gross	kg	152	140	141	165	166	181	
Fan	Air Flow Rate	Cooling	l/s	1560	2030	2670	3160	3445	3917
			cfm	3300	4300	5650	6700	7300	8300
Option for			UATYQ250MCY1	UATYQ350MCY1	UATYQ450MCY1	UATYQ550MCY1	UATYQ600MCY1	UATYQ700MCY1	

Standard Features

COMFORT



Turbo Mode- Rapid cooling/heating with highest fan speed for immediate comfort



Quiet Mode- Effective cooling with lower noise level



Dry Mode- Keeping the room dehumidified, while maintaining room temperature



Auto Mode- Auto switching between cooling and heating mode depending on room and set temperature



Sleep Mode

FIN TYPE

AL

Bare Aluminium Fin

GOLD

Anti Corrosion Hydrophilic Gold Fin

The outdoor models in the catalog comes with bare / blue fin condenser. For gold fin outdoor models, specification remains the same with the below model name change : eg :

RYN25CXV1 to RYN25CGXV1 "G" comes after the series name of the outdoor.

AIR FLOW



Selectable Fan Speed- Different fan speed is available for comfort selection



Belt Driven Evaporator Motor



Variable Pitch Pulley Drive Package



Automatic Vertical Swing- Automatic movement of air discharge louver for uniform air distribution



Manual Horizontal Air Flow- Adjustable horizontal discharge grille for desired air flow direction



4 Way Air Discharge

CONTROLLER



With Wireless Remote Controller



With Wired Remote Controller

IAQ



Washable Saranet Filter- Removal of airborne dust particles through saranet filter ensures cleaner air supply



Titanium Apatite Photocatalytic Air-Purifying Filter



Bio Antibody Filter



Ionizer

POWER SUPPLY



Power from Indoor



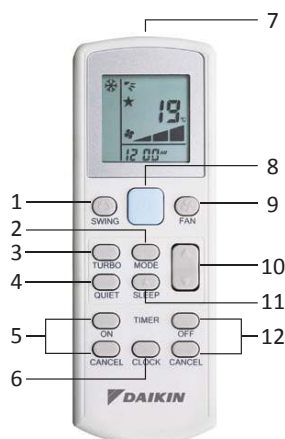
Power from Outdoor

Controller

BRC52A

BRC52A61 – Heatpump with auto mode

BRC52A62 – Cooling only



1. Vertical Automatic Air Swing
2. Selectable Mode:
Auto Mode, Cooling, Heating, Dry, Fan
3. Turbo Function
4. Quiet Function
5. ON Timer Setting
6. Real Time Clock
7. Transmission Source
8. "Glow in the dark" ON/OFF Button
9. Fan Speed Selection: Low, Med, High, Auto
10. Temperature Setting: Up & Down
11. Sleep Mode Function
12. OFF Timer Setting

BRC51A61 – Heatpump with auto mode

BRC51A62 – Cooling only



Features:

- Cool/Heat/Fan/Dry/Auto mode
- Auto/High/Med/Low fan speed
- Temperature operate in °C and °F
- Turbo and Quiet Function
- Sleep function
- Swing function
- Real time clock and day display
- 7-days programmable timer
- Error indicator
- Key lock and fan lock features
- Batteries backup and retain setting during power failure
- Last state memory (Memory backup setting from main board)
- Delay Timer (1 or 2 hours)
- Interaction with Wireless Handset (BRC52A61/BRC52A62)

BRC51B

BRC51B61 – Heatpump with 3 fan speed

BRC51B62 – Cooling only with 3 fan speed

BRC51B63 – Heatpump with single fan speed

BRC51B64 – Cooling only with single fan speed



Features:

- Cool/Heat/Fan/Auto mode
- Temperature F or C selectable with LED Display
- Timer Option
- Error indication

BRC51C

BRC51C61 – Heatpump with auto mode



Features:

- Cool/Heat/Fan/Auto mode
- Real Time Clock
- 7-days Timer
- Key Lock available
- Energy Saving Mode
- Error Indication
- Compressor Running Display
- Compressor Defrost Cycle Display

Intelligent Control Series

Network Interface Module (NIM) is a networking system which enables communication among Daikin air conditioners. With the Network Interface Module (NIM), all your air conditioning systems can be controlled with just a single controller giving you benefits:

Network Control NIM

Benefits

- More convenience. No more individually controlling air conditioning units
- Quicker and easier zone control from the master control unit
- Better control of air conditioning systems operating conditions

NIM utilizes master-slave type system whereby the master node will issue commands to each of the slave nodes.

Every master unit will have a group address so that every slave can only response to their respective master. Each slave unit must have a unique address so that it can be addressed independently of other nodes.

The master unit will be operating in conjunction with a control panel. Any settings done via the control panel connected to the master will overwrite the settings of its slave units.

Slave unit can be operated with or without control panel. If a slave unit is operating with a control panel, its settings can be changed without following its master.

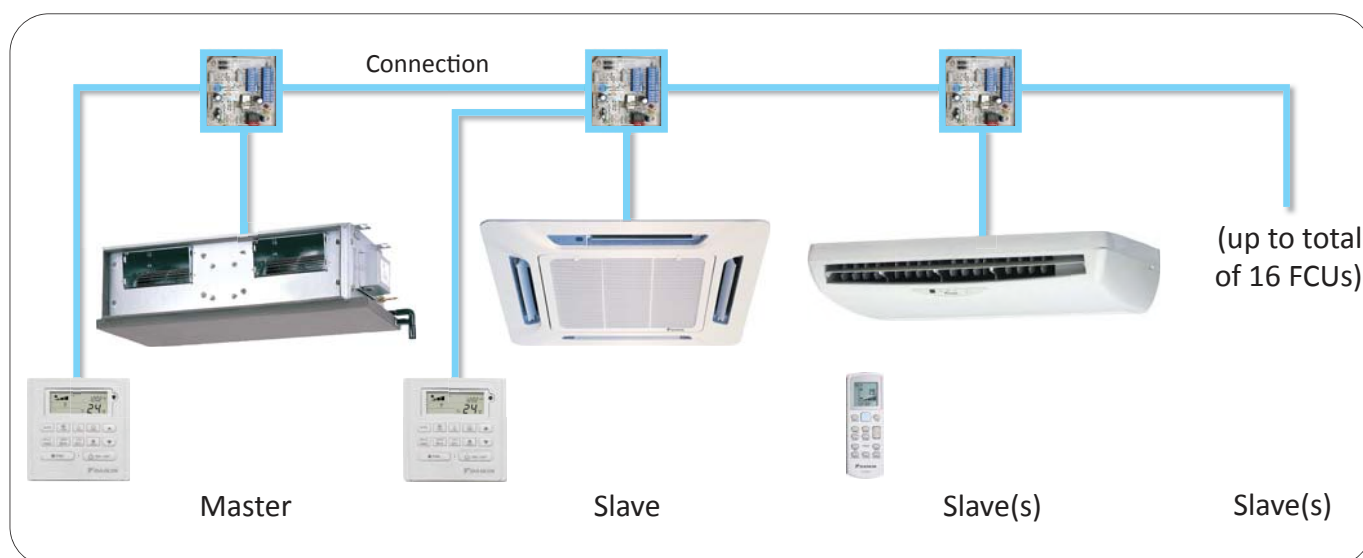


Basic Features

- DIP switch setting for Group & Unit address.
- Master or slave system configuration.
- Automatic detection of control panel existence.
- Error type and unit ID indication through display control panel.
- Maximum point to point communication bus up to 1000m.
- A single master unit can control up to 15 slave units in each group.
- Each slave unit will sense their individual local temperature.
- Unit address range from 0 to 15 (0000-1111).

The NIM System Consists Of

- Main Board controller
- Display control panel
- NIM controller
- Communications bus



Main Board Controllers And Display Control Panel

NIM must be used in conjunction with:

- DX fan coil units (except FT(Y)N model. The development is in progress and kindly contact with local distributor for status update.)
- BRC51A or BRC52A

Supported Configuration

	Master	Slave
BRC51A		
BRC52A	—	

Communication Bus

A 2-way twisted pair cable is used as the communication bus. Recommended cable for communication bus is a pair of screened & shielded, twisted single core wire with core diameter of 0.5mm to 1.0mm.

Connection	Recommended Maximum Cable Length (m)
First NIM to the furthest connected NIM	1000
NIM to Main Board	10
NIM to Wired Controller	10

Connection

The communication bus must be connected serially to the adjacent NIM. (Daisy chain connection). The same polarity has to be connected between the NIMs (A to A, B to B).

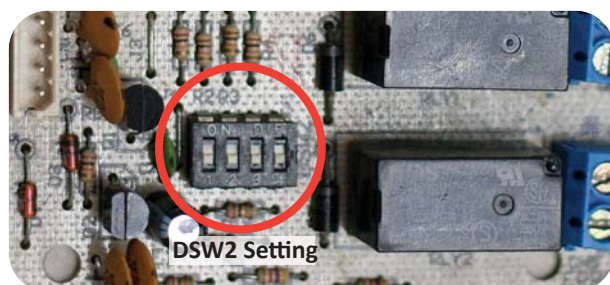
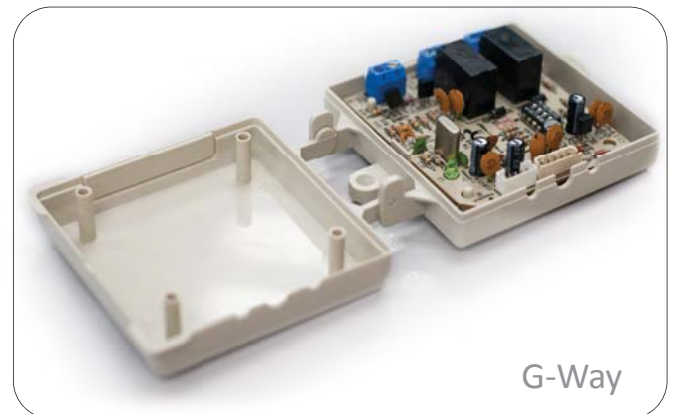
G-Way

Function

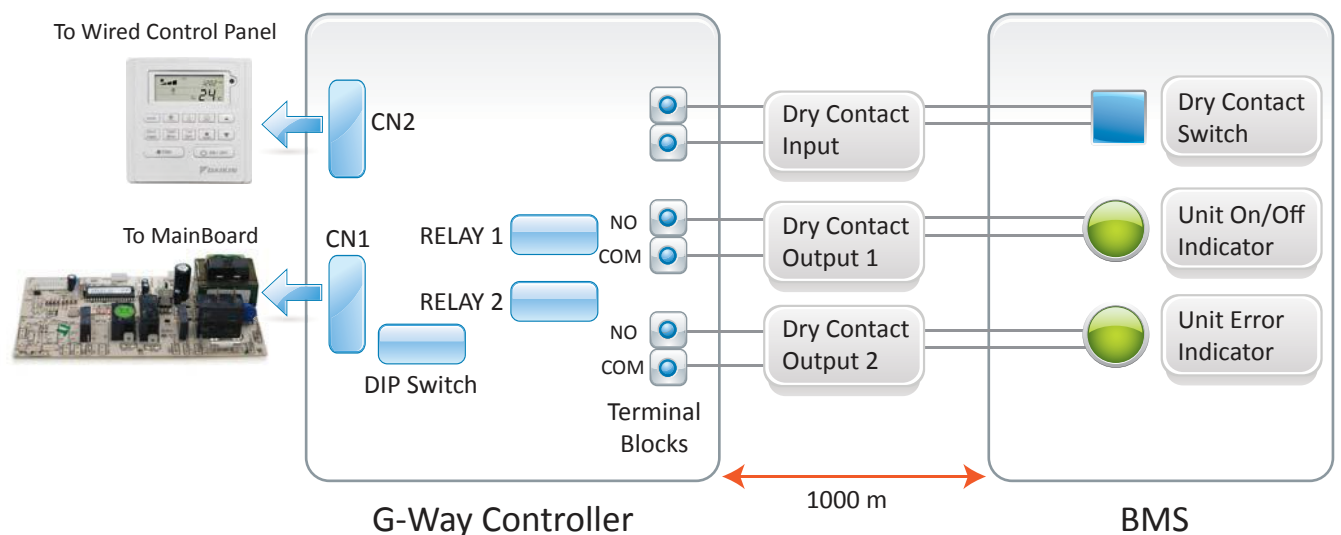
- Gateway between DX fan coil unit and basic Building Management System (BMS).

Note:

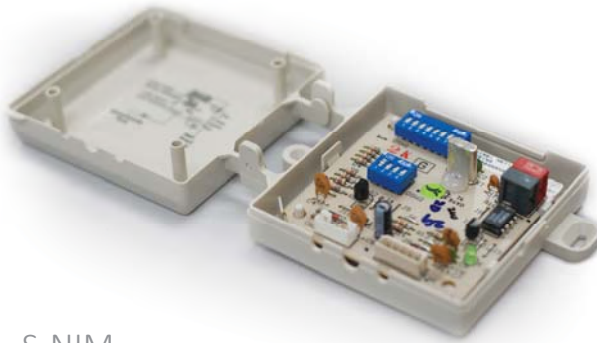
- Remote (On/Off) control of air conditioner via BMS.
- Unit error indication via BMS and BRC51A controller.
- Unit operation status monitoring via BMS.
- Maximum point to point communication bus between air conditioner and BMS of up to 1000m.
- DIP switch setting for control or monitoring function.



Types of Operation	DSW2 Setting
Control & Monitor (Ext. Switch Closed = ON A/C)	0000
Control & Monitor (Ext. Switch Open = ON A/C)	0010
Monitoring only	0001



S-NIM For Timer Switchover Control



Built on the NIM configuration, S-NIM serves to enhance the abilities and extend the operating lifetime of existing air conditioning units in harsh and demanding environment.

S-NIM works in a master & slave system, operating at alternate sequence of preset hours. Whenever the operating unit is at fault, the standby unit will automatically takes over.

Features

- Auto restart feature with last state settings.
 - 2 air conditioning units in a master & slave system, operating at alternate sequence of preset time (3/4/5/7/9/11/12 hours).
 - System controlled by a single BRC51A controller.
 - When the operating unit is at fault, the standby unit automatically takes over.
 - Error indication via error code displayed on LCD panel. (only is using Netware 3 control panel)
 - During system OFF mode, running timer will stop. It resumes when changing to ON mode.
 - Preset operation hours can be set via DIP Switch.
- * The air conditioning unit connected to the wired controller is always the master unit.

The S-NIM System Consists Of

- Main Board controller
- BRC51A
- S-NIM controller
- Communication Bus

Communication Bus

A 2-way twisted pair cable is used as the communication bus.

Recommended cable for communication bus is a pair of screened & shielded, twisted single core wire with core diameter of 0.5mm to 1.0mm.

S-NIM Controller Application

- Server Room
- Telecommunication Tower
- Livestock Breeding Farm
- Warehouse
- Laboratory
- Railway Switching Center
- Room with Critical Electronics Equipments

