

LG Electronics

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LG HVAC SOLUTION _____ **AIR CONDITIONERS**

For SOUTHERN AFRICA REGION



G

HVAC

SOLUTION

AIR CONDI

ITION







LG AIR SOLUTION AS A TOTAL HVAC & ENERGY SOLUTION PROVIDER

INFRASTRUCTURE IN MIDDLE EAST & AFRICA

LG Air Solution Production Sites





The LG Electronics Air Solution Business Unit is a provider of total HVAC and energy solution. The company offers a broad portfolio of air conditioner products that are compatible with any building anywhere, including compact residences, towering skyscrapers, massive factories and giant concert halls.

As a true total HVAC and energy solution provider, LG also supplies even the largest buildings and industrial facilities with central air conditioning systems such as chillers and efficient control solutions.

The history of the business unit goes back to 1968, when LG (then called GoldStar) rolled out Korea's first residential air conditioner.

As the company first began making chillers for large commercial buildings in 1970, the commercial air conditioning business has grown exponentially, especially within the last 20 years.

In 2008, LG sold its 100 millionth air conditioning unit,

becoming the first company in the industry to reach that significant milestone.

The success of LG air conditioners has allowed the company to become one of the major players in the highly competitive HVAC industry.

By enhancing the industry's B2B infrastructure and finding further solutions for the HVAC sector, LG has risen to become a total HVAC solutions specialist.

The company has steadily increased its sales and market share by introducing energy efficient and reliable HVAC solutions and actively pursuing new opportunities wherever they arise.

This sustained, excellent performance is built on a solid foundation of global R&D and advanced manufacturing capabilities.



006-047 RESIDENTIAL

014 - 047 WALL MOUNTED



048-109 COMMERCIAL

048 - 109 SINGLE SPLIT



Ceiling Mounted Cassette



Ceiling Suspended



078 Ceiling Concealed Duct

084



090 Single Package

RESIDENTIAL

WALL MOUNTED





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Made Better with **LG ThinQ**[™]

With most people living lives in more hectic than ever before, we see the enormous potential benefits which new technologies will bring to the home. LG ThinQ links smart products together so that they can work in balance to make your home smarter and more connected. New levels of control and convenience simplify everyday life and free up time so that you can stay focused on what matters. Furthermore, transformative features and services with artificial intelligence will take home evolution one step further. LG ThinQ will provide more personalized and optimized solutions by learning your needs and preferences through its wide range of products. Get more done while doing less. LG ThinQ's Personalized Solution, Proactive Advice, Maximum Efficiency and Intuitive Control deliver an elevated, more intelligent lifestyle.

LG ensures its intelligent offerings, AI-powered products and services unlock new roles for homes that can play an important role for truly smart living. Think Wise. Be Free.



LG ThinQ : A Brand for Products and Services Incorporating Advanced AI Technologies

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1 Understanding users via data collection

2 Providing tips & solutions through AI data analytics

* Previous LG ThinQ products-Requirement : evolving products with vocal/visual/product intelligence ** Examples of AI-Powered Service : -Usage guide/tips, Predictive maintenance, Auto/semi-auto setting (TBD)

Consumer Benefits



Intuitive Control

LG ThinQ adds convenience to your daily life by simplifying daily tasks. The LG ThinQ experience is reliable, flexible and effortless from setup to control and beyond. LG ThinQ products can be controlled from anywhere and at any time with simple voicecommands and a tap of the innovative ThinQ smartphone application. Meaning anywhere can be your home.



Maximum Efficiency

LG ThinQ minimizes energy consumption and can even track your energy usage and expenditure. Beyond mechanical advancements, LG ThinQ provides unrivaled energy efficiency by utilizing a combination of analytics, sensors and usage data.

Personalized Solution

LG ThinQ provides tailored recommendations and optimal settings, with your needs and preferences taken into account. Thanks to the power of AI, the same products can offer different experiences depending on your unique tastes and specific situations.



RESIDENTIAL WALL MOUNTED

RESIDENTIAL LINE-UP

FEATURE OVERVIEW

ARTCOOL

INDOOR UNITS



OUTDOOR UNITS



Mirror INVERTER COMPRESSO YEAR 12k 18k 24k Heating WARRANTY Dual Inverter Core Tech Ready But Google not open Voice Control • at South Africa Embedded Wi-Fi ₽³~ Smart Diagnosis ₽₽ Active Energy Control Energy E. Comfort Air (Indirect Cooling/Heating) J•] Low Noise 19dB (12k Only) . ⊕.⊕ Health care Plasmaster Ionizer^{+us} @<u></u> Gold Fin™ Auto Cleaning * Jet Cool 4 Way Swing Fast Heating <mark>ت</mark>ۇر Wired remote (=**#**=` PI 485 Dry Contact

Feature may vary for each model. Standard Commercial models will be launched 2020 4 Quarter. RESIDENTIAL



²⁴K Standard commercial model will be launched 2021 1 half season.

UNIQUE FEATURES

Smart

Enjoy anytime, anywhere access to your air conditioner with LG's ThinQ technology.

Fast Cooling & Heating

Regardless of the outdoor temperature, LG air conditioners distribute cold or hot air fast, reaching every corner of even your largest rooms with powerful cooling or heating.

with the delicately designed installation elements of LG air conditioners





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WALL MOUNTED

Artcool I Standard





Embedded Wi-Fi

Control your air conditioners by using Android or iOS based smartphones. This advanced technology provides you many benefits.



 ن ا LG Smart ThinQ

Download the 'LG SmartThinQ' app from the Google Downloads or the Appstore.



How it Works

Embedded Wi-Fi modem

Enable "LG Smart ThinQ" on your air conditioner.



By using the embedded Wi-Fi modem, get ready for innovation without boundaries.



Easy Registration and Log-in

Follow the interactive set-up LG Account steps that will activate smart ThinQ's impressive features.

	LG Accoun	t
erienc	e a variety of LG services with your l	G A
Email I		
Passwo	ord	
	SIGN IN	
Re	eset password Create acco	unt
SIGN	IN WITH YOUR SNS ACCOUN	TS
G	Sign in with Google	
f	Sign in with Facebook	

Wi-Fi Connectivity

Each individual member of your family can customise the air conditioner temperature and fan speed accordingly and then save the settings in their app to run it later. These settings can be saved for each air conditioner too.

Multiple Devices







• Benefit

Simple operation for various functions

On/Off, Current Temp Mode, Set Temp

Vane Control



Dry Fan Al Heat 18°C (1) OFF

Straight forward Management

Left/Right Swing



< 2017.03.20 ~ 03.26	nthly
Consumption 9.	>
	.1kv
Operation time 0Day 6Hr	
	15N
(kwh) 10	
9	
8	
7	
6	
4 31	
24	
2 16 20	
	26

Integrated Home Appliances Control

Control / Monitor all your LG appliances from one place.













Filter Management



Access your air conditioner anytime and from anywhere with a Wi-Fi equipped device and LG's exclusive control app, Smart ThinQ.





Smart Diagnosis

Smart Diagnosis allows you to check setup, installation, troubleshooting and other information conveniently from your smartphone.

* Specifications may vary for each model. * When connected to Multi ODU, Smart Diagnosis function may not be supported.

• What is the Smart Diagnosis?

Smart Diagnosis allows users to conveniently check setup, installation, troubleshooting and other information directly from a smartphone.

 * Builds upon widespread smartphone use and offers greater USP diversification * Perfect for consumers who are unable to view information about their air conditioner via a display or remote control.

How it works

By using "LG Smart ThinQ" App and clicking "Start Smart Diagnosis", monitor and check diagnosis results conveniently via Wi-Fi.



* When the model doesn't provide embedded Wi-Fi, diagnose by buzzer sound with the same app and remote controlle





• Benefit

Easily comprehensible error messages make detecting a solution and contacting the service center simple and convenient

For consumer



- Easily check operational status of a product without a display or one that provides limited information

consumer

- Save energy by monitoring key operational information and power consumption

Customer Diagnosis Support Complete

- Using the Maintenance Guide helps to improve device performance and increase product life-span.





For Installer and SVC 1 Installer and SVC

- Understand the product better by easily confirming operational status and information
- Intuitively diagnose problems by comparing current and past usage data
- Maintain installation capabilities and reduce installation errors by quickly confirming device operational status

SMART

SIMs

By connecting SIMs chip, you can check the status of your air conditioner and diagnoseproblems from your smartphone.

* Specifications may vary for each model.

* When connected to Multi ODU, SIMs function may not be supported.

• What is the LG SIMs?



Monitor the status of your air conditioner and accurately diagnose problems by connecting it to a smartphone via a SIMs chip. * SIMs : Smart Inverter Monitoring System

How It Works



SIMS App

1. Use a SIMs chip to connect a smartphone to an air conditioner. 2. Monitor and diagnose problems in real time using the SIMs app.

• Benefit

Easy Monitoring

Diagnose problems anytime, anywhere with a SIMs chip.



Main

Current outdoor temperature Indoor temperature Inverter Comp frequency Operating opening Error code / Frequency limits Indoor. Outdoor fan speed





Easy Diagnosis & Quick Response

Easily monitor IDU/ODU and diagnose problems. Save and review diagnostic data.



Indoor Unit Indoor Unit Capacity / Operation Mode THM mode / REM mode FAN operating condition / EEV opening RoomTemperature/SuctionTemperature Intermediate Temperature Exit Temperature



Chart Room Temperature Heat exchanger pipe temperature

Compressor discharge temperature Frequency / Outdoor temperature Compressor suction temperature

Electric current / Voltage

Low Refrigerant Detection

Early notification of low refrigerant protects your air conditioner from a risk of damage.

* Specifications may vary for each model. * Depending on the experimental conditions

How It Works

Early Detection of Low Refrigerant Levels The Air Conditioner is automatically shut down when low refrigerant level is detected.

3 Checkpoints for Low Refrigerant Level : 1) The heat exchanger temperature is

- comparatively cool
- 2) The outdoor unit is working properly
- 3) The energy consumption is working under a standard pattern

If any of the above conditions are not met, for a maximum of 4 times, after 15 minutes of Air Conditioner operation, a Low Refrigerant level is detected and the Air Conditioner is shut down



Benefit

Longer Lifespan for Air Conditioner



Notify You of Low Refrigerant Levels

When Low Refrigerant Level is detected, it alternately shows CH and 36 on the display.

Canada Radio Standard Canada Radio Standard Australia Radio Standard CE Europe Radio Standard *Smartphone Requirements (iOS : 6.1 or later, Android : 2.3 or later)

Certificate





Capacity and Effectiveness of the Refrigerant Levels



- Cooling and dehumidification mode



* Some models show CH and 38 alternately on the display.



Supreme Energy Efficiency

LG's revolutionary Inverter technology boasts powerful yet quiet performance while minimising energy consumption. With world class energy efficiency, bask in the cosiness of the atmosphere surroundings whilst saving energy.

* Based on H09AL Model * Specifications may vary for each model.

• High Efficient Compressor and Reversing Valve

Rotary Compressor and Motor Efficiency

The number of suction connections has been reduced from two to one to increase the efficiency of the refrigerant compression during low speed conditions. The DC motor in LG air conditioners remains unsurpassable incomparable to in the world's best efficiencies.

Bi-Stable Reversing Valve

The Input power of 4-way valve has been reduced to OW by using a Bi-Stable type.



Improved Inverter Drive Efficiency

Used to optimise the time of current flow by controlling the number of converter switching according to energy consumption status. Displays comparatively higher performance and advanced energy efficiency than conventional Inverter air conditioner by reducing power loss with an advanced material component called SiC.

SiC-Hybrid PSC Control





Active Energy Control 4 - Step

LG's Active Energy Control adjusts the energy consumption level and cooling capacity by controlling maximum frequency of the compressor motor.

* Specifications may vary for each model. * Depending on the experimental conditions.

Concept & Benefit

Cooling a home can come at a high cost particularly during the hot summer months.



How It Works





Fewer people and low-activity levels.







Energy Display

LG's Energy Display panel monitors the amount of energy levels used. Save on energy consumption while enjoying the cooling by checking your energy level on the panel.

* Specifications may vary for each model. * When connected to Multi ODU, Energy Display function may not be supported.

How it Works

Magic Display & Remote Control

With the push of a button on the remote control, indoor unit's LCD display shows the current and total energy use, thus making the users aware of reducing energy consumption.



• Benefit

Nomal Mode Current Setting Temp









Additional Benefit

Fan Speed

Display	Speed
F5	High
FY	Medium-High
F3	Medium
F2	Medium-Low
FI	Low





For example, setting 1hr

*Plasmaster[®] Ionizer^{PLUS}

The powerful plasma lonizer protects you from bad odors and harmful and contagious particles in the air with over 3 million ions to sterilize not only the air passing through the air conditioner, but also surrounding surfaces for a safer, and cleaner environment.

* Specifications may vary for each model. * Depending on the experimental conditions

How It Works

Sterilization and Deodorization (Utilizes Over 3 Million Ions) Plasmaster Ionizer+ reduces harmful and contagious microscopic particles by infusing the air passing through the air conditioner with over 3 million ions.



Test Result

Sterilization Performance Evaluations

Sterilize Bacteria (E.coli colon bacillus) over 99.9% in 30 min.



PERFECT HEALTHCARE (Ⅲ)≋

Chemical Reaction

particles in the air

OH radicles bond with H

2.1 odor strength decrease in 60 minutes

An odor of measured as 2 European odor units (ouE/m³) or less indicates that the level of odor falls within permissible limits.

0

Sterilization

H₂O

H₂Omoleculesareproduced



Odor strength reduce 3.6 \Rightarrow 1.5 / The Odor floating in the room as well as curtain and clothes

PERFECT HEALTHCARE

Dual Protection Filter

The Dual Protection Filter collects dust.

* Specifications may vary for each model. * Depending on the experimental conditions.

• What is the Dual Protection Filter?

The Dual Protection Filter, designed to capture dust particles over 10µm in size, is the first line of defense and hindrance against finer particles.



Additional Benefit

Easy to Open

Easily detachable full surface cover helps clean the air conditioner flawlessly.



Easy to Clean

The filter is designed for easy handling and quick cleaning, which lengthens its lifespan.



Auto Cleaning

The interior of the air conditioner is maintained clean by drying off the heat exchanger, then sterilizing the interior once more. * Specifications may vary for each model.

Pain Point

The main cause of odor within air conditioners is mold and bacteria growing on the heat exchanger. These germs can spread when the heat exchanger is wet.



How It Works

Cleans Filter with Regular Airflow

The comprehensive auto cleaning function prevents the formation of bacteria and mold on the heat exchanger, providing an enhancing environment.



By dehumidifying, the auto cleaning function eliminates substances that might be harmful.

Benefit

Removes Harmful Particles

Auto Cleaning provides clean air by preventing bacteria, mold and odors that can otherwise accumulate in an indoor unit.



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Bacteria Prevention



Odor Elimination



after a period of 10 years.

Mold Elimination

FAST COOLING & HEATING

Fast Cooling

The cool airflow reaches all the corners of the room, keeping the space cool and comfortable.

* Specifications may vary for each model.

* Depending on the experimental conditions.

How It Works

Bigger Skew Fan

A 25% larger skew fan emanates highly powerful blasts of air.



Cooling Outlet A larger, optimally designed cooling outlet emanates to large areas and cools spaces faster.



Jet Cool

LG air conditioners provide optimized high-speed airflow, which can cool rooms faster while delivering cool air evenly in every direction.

* Specifications may vary for each model. * Depending on the experimental conditions.

How It Works

One Click "Jet Mode" Reduces the temperature of outflowing air to 18°C for 30 minutes with just one click.



Test Result

Test Result



Changes in Temperature Over 30 Minutes



* Test Conditions : Outdoor temperature : 35°C / Indoor temperature : 33°C / Humidity: 60% / Remote control: 24°C High

More Powerful Performance

By reducing the second vortex, which decreases airflow within the air outlet, and enlarging the fan size, the amount of airflow is increased to 13.0 CMM.



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FAST COOLING & HEATING

4-Way Swing

Cool air reaches out to the entire room regardless of where the air conditioner is installed * Specifications may vary for each model.

How It Works

6-Step Vane, Control up to 70° The vertical vane, which moves up and down, has 6 different settings including full-auto swing. 5-Step Louver, Control up to 55° The louver, which sways left and right, has 5 different settings including full auto-swing.

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4



* Angle can be different from each model and working mode.

• Easy and Simple Control

Airflow direction can be changed by LG ThinQ Wi-Fi app.

Up/Down Swing

← AIR CONDITION	IER1 🔔 …
Current Tem	p.:24°C
\sim	
Purification	OFF
Air Flow Mode	~
Up/Down Swing	Auto Swing
	\bigcirc
	F



eft&Ria 110°

Current	Temp.:24°C
0	\sim \bigcirc
Left/Right Swing	Auto Swing
	↓ 5 ()
Additional Setting	
	Saving

Fast Heating

LG Residential Air Conditioners satisfy your heating needs while consuming less energy, by heating a wider space in a shorter period of time to create a warm and comfortable living environment.

* Specifications may vary for each model. * Depending on the experimental conditions.

How It Works

4 way Auto Swing (Easy Airflow Control)

4 Way Auto Swing adjusts airflow based on the surrounding environment, allowing for optimal distribution of warm air to living areas and enabling quick heating.



Benefit & Test Result

22% Quick Heating



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Vertical Airflow

When heating, the vane sends heated air downwards to maintain a pleasant and balanced room temperature.



Changes in Temperature Over 20 Minutes



* Test Conditions : Outdoor temperature : 7°C / Indoor temperature : 12°C / Humidity: 87% / Remote control: 30°C Power



10-Year Inverter Compressor Warranty

LG, with confidence in product quality, preserves is better lives for customers by providing 10 years warranty for Inverter Compressor of Air conditioners.

* Specifications may vary for each model.

• What is the 10 Year Warranty?

The compressors is for the Air Conditioner what the engine is to the vehicle. With the 10 year warranty on the compressor, users can avail of the benefits of LG air conditioner for a longer period on time.



Benefit & Verification

Reliable Air Conditioner

Product safety is emphasized by offering a 10-year warranty on the compressor to reassure customers about product durability.



Verification

TUV Rheinland, Long Term Accelerated-reliability Test & High Marginal Test

* Long Term Accelerated-Reliability test LG's unique testing method with reinforced operating condition for a product life assurance to test and determine the product life cycle in a short period of time by accelerating the life cycle. * High Marginal Test

Test method to secure durability in various adverse conditions that may occur in the field by performing comp reliability test against higher pressure and temperature than the designed range of pressure and temperature which the comp operates in. * Verification obtained from TUV Rheinland for 10-year product life cycle



Gold Fin[™]

The Gold Fin[™] coating protects the surface of the heat exchanger from unnecessary wear and corrosion.

* Specifications may vary for each model. * Depending on the experimental conditions.

How It Works

Crosscut View of Heat Exchanger



Test Result

Conventional Fin



* Test result 360 hrs. after being exposed to sodium chloride



The gold-colored special coating on the fin of the heat exchanger prevents corrosion, extending the life of the unit.

Gold Fin™





Comfort Air

LG provides pure hygienic and temperature regulated atmosphere surrounding your living space. An automatic vane angle adjustment sets perfect vane angle and air volume.

* Specifications may vary for each model.

Concept

If the air conditioner remains ON while asleep, it can lower body temperature or cause discomfort, especially if the outflow of cool air is directly close to the room's occupants. This can be eliminated by the Comfort Air vane angle thus providing a comfortable environment to the sleeping occupants.

How It Works

Control Panel



Comfort Vane

This option conveniently sets an AC's louvers to a preset position so that outflowing air is directed away from a room's occupants.



Scene 1: Inclines to a maximum 70° angle. Sets vane angle to highest position : Optimized for gentle airflow cooling. Indoor Unit Display Remote Controller Display 18°» DUAL Inverter ຳກິດ Scene 2: Declines to a maximum 0° angle.

Sets vane angle to lowest position : Optimized for gentle airflow heating. Remote Controller Display





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Low Noise

LG Air Conditioners operate at 19dB low noise level, moreover provide healthy soft air by just 1 touch. * Specifications may vary for each model.

How It Works

LG's Unique Skew Fan

By minimizing the surface pressure of the fan blade when in contact with the air peak noise are reduced to a level that is among the lowest in the world.

precise speed control of 13 different steps for smooth operation, the BLDC motor provides substantial air volume and high static pressure, while keeping electrical and mechanical noise lower, and making high-speed operation available.

for imbalances, which are the primary causes of vibration and noise, enabling the rotation of the motor without vibration at low Hz levels.

Benefit







STADARD COMMERCIAL

Quick & Easy Installation

LG air conditioner is designed for an easy and efficient installation, making possible to install several units in a short period of time * Specifications may vary for each model.

• Concept

By reducing the manpower and time required for installation, it is now possible to install more units in less time.

How It Works

One Simple Packing Box



Installation Support Clip A support clip creates adequate space between the wall and the unit for easier installation.



Detachable Bottom Cover

The air conditioner's bottom cover is detachable for easier installation and access.



Installation Plate Improvement

LG's installation plate is larger and customized to reduce installation time.



Wider Tubing Space

The space provided for tubing facilitates the whole installation process and hides the unorganized parts, making it appear clean and tidy.



Quick button for running test

The test button is conveniently located and easy to find.



Long Distance Piping

From the outdoor unit, the indoor can be installed at a maximum piping length of 30m and with a maximum elevation of 25m.

Long piping length and long level difference

*Standard Commercial	Total Piping Length	Height Difference
9k	15	7
12k	15	7
18k	20	10
24k	20	10
38k	30	25





* This specification may vary for each model

STADARD COMMERCIAL (ACCESSORIES)

STADARD COMMERCIAL (ACCESSORIES)

		ARTCOOL	Standard Commercial*	Standard
Wired		-	Y	-
Remote Controller	12k	-	Y	-
	18k	-	Y	-
		-	Y	-
		-	Y	-
PI 485		-	Y	-
	12k	-	Y	-
	18k	-	Y	-
		-	Y	-
		-	Y	-
Dry		-	Y	-
Contact	12k	-	Y	-
	18k	-	Y	-
		-	Y	-
		-	Y	-

Dry Contact



MODEL Contact Point Power Input Thermo Off

PDRYCB000 PDRYCB100 PDRYCB400

* Refer to each mode PDB for applicable models.

Voltage / Non Voltage On / Off Control Lock / Unlock Fan Speed Setting Energy Saving Temperature Setting Error Monitoring **Operation Monitorin**

Remote Controller

18°°

005ì

LG Artcool Standard Commercial

Standard

COMFORT

Button	Display Screen	Description	
U	-	To turn On / Off the air conditioner.	
TEMP	88°,	To adjust the desired room temperature in cooling, heating or auto changeover mode.	
COMFORT		To adjust the air flow to deflect wind.	
LIGHT OFF - To set the bright		To set the brightness of the display on the indoor unit.	
	棠	To select the cooling mode.	
_	X	To select the heating mode.	
MODE	\Diamond	To select the dehumidification mode.	
_	旸	To select the fan mode.	
	A.	To select the auto changeover / auto operation mode.	
FAN SPEED		To adjust the fan speed.	
ENERGY CTRL.		To bring the effect of the power saving.	
JET MODE	Po	To change room temperature quickly.	
wing wing		To adjust the air flow direction vertically or horizontally.	
ROOM TEMP	Û	To display the room temperature.	
℃ ↔ °F[5sec]	°Ç F	To change unit between °C and °F.	
SET/ CANCEL	-	To set / cancel the functions and timer.	
~^	-	To adjust time.	
TIMER	-	To turn on / off air conditioner automatically.	
CANCEL	-	To cancel the timer settings.	

Y: Available * Will be delivery end of 2020, 38k btu can be sell.

Standard Wired Remote Controller

Standard III

Standard II





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REMTB100	PREMTBB10	

* Refer to each model PDB for applicable models.

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10	PREMTB001	PREMTBB01

	Operation Mode	On/Off, Fan Speed Control, Temperature Setting		
	Mode Change	Cooling / Heating / Auto / Dehumidification / Fan		
	Auto Swing / Vane Control	•	•	
5	Reservation	Simple / Sleep / On, Off / Weekly / Holiday		
	Time Display	•	•	
	Electrical Failure Compensation	•	•	
	Child Lock	•	•	
	Operation Status LED	•	•	
	Indoor Temperature Display	•	•	
	Wireless Remote Controller Receiver	-	•	
	Size (W*H*D, mm)	120*120*16	120*121*16	
	Backlight	•	•	

MODEL NAME

PREMTB100 PREMTBB10

PREMTB001 PREMTBB01

PI 485



Power : Single phase AC 220V 50/60Hz Max. no of the indoor units that can be connected: 64 UNITS * Standard Commercial Only.

PMNFP14A1

RESIDENTIAL

	PDRYCB000	PDRYCB100	PDRYCB400
	1 Control Point	1 Control Point	2 Control Point
	AC 220V from outside power source	AC 24V from outside power source	DC 5V & 12V from indoor unit PCB
je Input			•
	•	٠	•
			•
			•
			•
			•
9			•
	•	•	•
ng	٠	•	•
-			

ARTCOOL







Single Combination

	U	VIT		12K	18K	24K
	IND	OOR		A13RJH NJ2	A19RKH NK2	A24RKH NK2
	Cooling	Min / Rated / Max	kW	0.88/3.52/3.87	1.08 / 5.28 / 5.36	1.26/6.45/7.18
Capacity	Heating	Min / Rated / Max	kW	0.88/3.52/4.04	1.08 / 5.42 / 6.1	1.26 / 6.45 / 7.32
	Heating -7 °C		kW	-	-	-
	Cooling	Min / Rated / Max	W	140/1,085/1,400	238/1,640/1,710	240/2,010/2,420
Power Input	Heating	Min / Rated / Max	W	140/975/1.550	238/1,500/1,800	240 / 1,890 / 2,500
Running	Cooling	Min / Rated / Max	A	0.7 / 5 / 6.5	1.1 / 7.4 / 8.1	1.14/9.6/11.46
Current	Heating	Min / Rated / Max	A	0.7/4.8/7.5	1.1/6.82/8.52	1.14/9.1/11.84
EER			W/W	3.24	3.22	3.21
EER (T3)			W/W	-	-	-
SEER			-	-	-	-
СОР			W/W	3.61	3.61	3.41
SCOP			-	-	-	-
Energy Label G	rade		Cooling / Heating	-/-	-/-	- / -
Annual Energy			Cooling / Heating	- / -	-/-	- / -
Power Supply			Ø. V. Hz	1,220~240,50	1, 220 ~ 240, 50	1,220~240,50
		Cooling, Max / H / M / L	m³/min	12.5/9.3/7.2/2.7	19.3/13.5/12/9	21/15/12/9
		Heating, Max / H / M / L	m³/min	13/10/7/5.5	20/14/13/9.5	21/16/13/9.5
		Cooling, Max / H / M / L / SL	dB(A)	-/42/36/28/19	55/45/43/38/32	56/48/43/38/32
		Heating, Max / H / M / L	dB(A)	-/42/36/31	56/45/43/38	57 / 48 / 43 / 38
Indoor	Dimensions (W x H x D)	Net	mm	837 x 308 x 192	998 x 345 x 212	998 x 345 x 212
	Weight		kg	9,9	13.0	14.3
				Munsell 7.5PB 0.2 / 20	Munsell 7.5PB 0.2 / 20	Munsell 7.5PB 0.2 / 20
	Exterior Color Code		-	(RAL 9005)	(RAL 9005)	(RAL 9005)
	OUTI	DOOR		A13RJH UJ2	A19RKH UK2	A24RKH UK2
	Air Flow Rate	Max	m³/min	27.0	38.0	50.0
			dB(A)	51	54	56
			dB(A)	53	56	58
			dB(A)	-	-	-
Outdoor			mm	717x495x230	770 x 545 x 288	870 x 655 x 320
	Weight		kg	26.4	34.2	42.7
			°C DB	18~48	18~48	18~48
	Operation Range		°C DB	-5 ~ 24	-5 ~ 24	-5 ~ 24
			°C WB	-5 ~ 18	-5 ~ 18	-5~18
Circuit Breaker			A	15	20	20
Power Supply C	able		No. x mm ²	3 x 1	3 x 1.5	3 x 1.5
			mm	ø 6.35	ø 6.35	ø 6.35
Piping			mm	ø 9.52	ø 12.7	ø 15.88
			-	Flared / Flared	Flared / Flared	Flared / Flared
			-	R410A	R410A	R410A
		Pre Charge	g	850	1,230	1,400
Pofrigorant		Additional Charge	g/m	20	20	20
Refrigerant		Global Warning Potential	-	2,087.5	2,087.5	2,087.5
		t-CO, eq	-	1.774	2.568	2.923
		1-CO ₂ eq		1.774	2.500	2.525

Note : 1. – : No Relation

2. All power supply and communication cables and circuit breaker must comply with applicable local and national codes.

3. Exterior color code is approximate value.

4. It is difficult to measure air flow rate of sleep because of small values.

5. Maximum heating capacity is for heating operation without any frost.

6. Fan motor speed could vary ± 20 rpm according to the operating conditions.

7. It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.

8. This product contains fluorinated greenhouse gases.
 9. Some specifications may be changed without notifications due to our policy of innovation.





Single Combination

	U	NIT		9К	12K	18K	24K
	IND	OOR		M11AJH NJ2	M13AJH NJ2	M19AKH NK2	M24AKH NK2
	Cooling	Min / Rated / Max	kW	0.88/2.7/3.46	0.88 / 3.52 / 3.87	1.08 / 5.28 / 5.36	1.26 / 6.45 / 7.18
Capacity			kW	0.88 / 2.93 / 4.04	0.88 / 3.52 / 4.04	1.08 / 5.42 / 6.1	1.26 / 6.45 / 7.32
			kW	-	-	-	-
			W	140/729/1,400	140/1,085/1,400	238/1640/1,710	240 / 2,010 / 2,420
Power Input			W	140/771/1,550	140/975/1,550	238 / 1,500 / 1,800	240 / 1,890 / 2,500
Running			A	0.7/3.5/6.5	0.7 / 5 / 6.5	1.1 / 7.4 / 8.1	1.14/9.6/11.46
Current			A	0.7 / 3.6 / 7.5	0.7 / 4.8 / 7.5	1.1 / 6.82 / 8.52	1.14 / 9.1 / 11.84
EER			W/W	3.70	3.24	3.22	3.21
EER (T3)			W/W	-	-	-	-
SEER			-	-	-	-	-
СОР			W/W	3.80	3.61	3.61	3.41
SCOP			-	-	-	-	-
Energy Label (Grade		Cooling / Heating	- / -	- / -	- / -	- / -
Annual Energy	Consumption		Cooling / Heating	- / -	- / -	- / -	- / -
Power Supply			Ø, V, Hz	1,220~240,50	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50
		Cooling, Max / H / M / L	m³/min	12.5/9.3/7.2/2.7	12.5/9.3/7.2/2.7	19.3/13.5/12/9	21/15/12/9
		Heating, Max / H / M / L	m³/min	13/10/7/5.5	13/10/7/5.5	20/14/13/9.5	21/16/13/9.5
		Cooling, Max/H/M/L/SL	dB(A)	-/42/36/28/19	-/42/36/28/19	55/45/43/38/32	56/48/43/38/3
		Heating, Max / H / M / L	dB(A)	-/42/36/31	-/42/36/31	56 / 45 / 43 / 38	57/48/43/38
Indoor			mm	837 x 308 x 189	837 x 308 x 189	998 x 345 x 210	998 x 345 x 210
	Weight		kg	8.4	8.4	11.3	12.8
	Exterior Color Code			Munsell 7.5BG 10 / 2 (RAL 9016)	Munsell 7.5BG 10 / 2 (RAL 9016)	Munsell 7.5BG 10 / 2 (RAL 9016)	/ Munsell 7.5BG 10 (RAL 9016)
	OUT	DOOR		M11AJH UJ2	M13AJH UJ2	M19AKH UK2	M24AKH UK2
	Air Flow Rate	Max	m³/min	27.0	27.0	38.0	50.0
		Cooling, Rated	dB(A)	51	51	54	56
		Heating, Rated	dB(A)	53	53	56	58
			dB(A)	-	-	-	-
Outdoor			mm	717x495x230	717x495x230	770 x 545 x 288	870 x 655 x 320
	Weight		kg	26.4	26.4	34.2	42.7
			°C DB	18~48	18~48	18~48	18~48
	Operation Range		°C DB	-5 ~ 24	-5 ~ 24	-5 ~ 24	-5 ~ 24
			°C WB	-5 ~ 18	-5~18	-5~18	-5 ~ 18
Circuit Breake			А	15	15	20	20
Power Supply	Cable		No. x mm ²	3 x 1	3 x 1	3 x 1.5	3 x 1.5
			mm	ø 6.35	ø 6.35	ø 6.35	ø 6.35
Piping			mm	ø 9.52	ø 9.52	ø 12.7	ø 15.88
			-	Flared / Flared	Flared / Flared	Flared / Flared	Flared / Flared
			-	R410A	R410A	R410A	R410A
		Pre Charge	g	850	850	1,230	1,400
Refrigerant		Additional Charge	g/m	20	20	20	20
Renigerant		Global Warning Potential	-	2,087.5	2,087.5	2,087.5	2,087.5
		t-CO ₂ eq	-	1.774	1.774	2.568	2.923

Note : 1. – : No Relation

2. All power supply and communication cables and circuit breaker must comply with applicable local and national codes. 3. Exterior color code is approximate value.

4. It is difficult to measure air flow rate of sleep because of small values.

5. Maximum heating capacity is for heating operation without any frost.

indoor unit and outdoor unit are close.

This product contains fluorinated greenhouse gases.
 Some specifications may be changed without notifications due to our policy of innovation.





(9k, 12k)

6. Fan motor speed could vary ±20 rpm according to the operating conditions.
7. It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although

STANDARD COMMERCIAL







Single Combination

	UN	JIT		9K	12K	18K	38K
	IND	OOR		M10EJH NJ0	M13EJH NJO	M19EKH NKO	M38AKH NRO
	Cooling	Min / Rated / Max	kW	0.88 / 2.7 / 3.46	0.88 / 3.52 / 3.87	1.08 / 5.28 / 5.36	1.77/9.78/11.14
Capacity			kW	0.88/2.93/4.04	0.88 / 3.52 / 4.04	1.08 / 5.42 / 6.1	1.47 / 8.5 / 9.79
			kW	-	-	-	-
	Cooling	Min / Rated / Max	W	140/729/1,400	140/1,085/1,400	238/1640/1,710	610/3050/3990
Power Input	Heating		W	140/771/1,550	140/975/1,550	238/1,500/1,800	559/2235/3990
Running	Cooling	Min / Rated / Max	A	0.7 / 3.5 / 6.5	0.7 / 5 / 6.5	1.1 / 7.4 / 8.1	3.92 / 13.5 / 17
Current	Heating	Min / Rated / Max	A	0.7 / 3.6 / 7.5	0.7 / 4.8 / 7.5	1.1 / 6.82 / 8.52	3.68 / 10.5 / 17
EER			W/W	3.70	3.24	3.22	3.21
ER (T3)			W/W	-			-
SEER			-	-	-	-	-
COP			W/W	3.80	3.61	3.61	3.80
SCOP			-	-	-	-	-
Energy Label G	rade		Cooling / Heating	A++ / A++	A/A++	A/A++	- /-
Annual Energy			Cooling / Heating	365 / -	543/-	820 / -	- /-
Power Supply			Ø, V, Hz	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1/220-240/50
		Cooling, Max / H / M / L	m³/min	12.5/9.3/7.2/2.7	12.5 / 9.3 / 7.2 / 2.7	19.3/13.5/12/9	32/25/21/17
		Heating, Max / H / M / L	m³/min	13/10/7/5.5	13/10/7/5.5	20/14/13/9.5	33/27/23/19
		Cooling, Max/H/M/L/SL	dB(A)	-/41/35/27/19	-/41/35/27/19	55/45/43/38/32	-/52/47/43/34
Indoor		Heating, Max / H / M / L	dB(A)	-/42/36/31	-/42/36/31	56/45/43/38	-/52/47/43
	Dimensions (W x H x D)	Net	mm	837 × 308 × 189	837 × 308 × 189	998 × 345 × 210	1200/360/265
	Weight	Net	kg	8.6	8.6	11.5	18.5
	Exterior Color Code		-	Munsell 7.5BG 10/2 (RAL 9016)	Munsell 7.5BG 10/2 (RAL 9016)	Munsell 7.5BG 10/2 (RAL 9016)	Munsell 7.5BG 10/2(RA 9016)
	OUT	DOOR		M10EJH UJO	M13EJH UJO	M19EKH UKO	M38AKH URO
	Air Flow Rate	Max	m³/min	27.0	27.0	38.0	71.0
		Cooling, Rated	dB(A)	51	51	54	58
		Heating, Rated	dB(A)	53	53	56	59
	Dimensions (W x H x D)	Net	mm	717 / 495 / 230	717/495/230	770 / 545 / 288	950/832/330
Dutdoor	Weight	Net	ka	26.4	26.4	34.2	67.1
	vveigitt	Cooling	°C DB	18~48	18~48	18~48	18~54
	Operation Range	Heating	°C DB	-5~24	-5~24	-5~24	-5~24
	Operation Range		°C WB	-5~18	-5~18	-5~18	-5~24
Circuit Breaker		Heating	A	-5~18	-5~18	-5~18	-3~18
							3 x 2.5
Power Supply C	able	Liquid	No. x mm ²	3 x 1 ø 6.35	3 x 1 ø 6.35	3 x 1.5 ø 6.35	з x 2.5 ø 9.52
Piping		Gas	mm	Ø 6.35 Ø 9.52	Ø 6.35 Ø 9.52	Ø 6.35 ø 12.7	ø 9.52 ø 15.88
	Connections Mathe		mm	ø 9.52 Flared / Flared		ø 12.7 Flared / Flared	Ø 15.88 Flared / Flared
		Indoor / Outdoor	-		Flared / Flared		
		Туре	-	R410A	R410A	R410A	R410A
		Pre Charge	g	850	850	1230	2400
Refrigerant		Additional Charge	g/m	20	20	20	30
		Global Warning Potential		2087.5	2087.5	2087.5	2087.5
		t-CO ₂ eq	-	1.77	1.77	2.57	5.01
Compressor			-	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary

Note : 1. – : No Relation

2. All power supply and communication cables and circuit breaker must comply with applicable local and national codes.

3. Exterior color code is approximate value.

4. It is difficult to measure air flow rate of sleep because of small values.

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8. This product contains fluorinated greenhouse gases.

9. Some specifications may be changed without notifications due to our policy of innovation.

10. Standard Commercial models will be launched 2020 4 Quarter, 38k btu can be sell.

11. 38k Model don't applied Active Energy control function.

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ARTCOOL

A11RJH.NJ2 / A13RJH.NJ2







A11RJH.UJ2 / A13RJH.UJ2

(Unit : mm)						
ltem No.	Part Name					
1	Air Outlet					
2	Control Box					
3	Power and Communication Cable Hole					
4	Service Valve Cover					
5	Gas Pipe Connection					
6	Liquid Pipe Connection					





* This product contains Fluorinated greenhouse gases (R410A).

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WALL MOUNTED SPECIFICATION







ARTCOOL

STANDARD/STANDARD COMMERCIAL

A19RKH.NK2 / A24RKH.NK2



A19RKH.UK2 / A24RKH.UK2

M11AJH.NJ2 / M13AJH.NJ2 , M10.EJH.NJ0 / M13EJH.NJ0



M11AJH.UJ2 / M13AJH.UJ2 , M10EJH UJ0 / M13EJH UJ0

(Unit : mm)	
Item No.	Part Name
1	Air Outlet
2	Control Box
3	Power and Communication Cable Hole
4	Service Valve Cover
5	Gas Pipe Connection
6	Liquid Pipe Connection



* This product contains Fluorinated greenhouse gases (R410A).





STANDARD/STANDARD COMMERCIAL

STANDARD COMMERCIAL

M19AKH.NK2 / M24AKH.NK2 , M19EKH.NK0 / M24EKH.MK0



M19AKH.UK2 , M19EKH.UKO

M24AKH.UK2, M24EKH.UKO

(Unit : mm)					
ltem No.	Part Name	Item No.	Part Name		
1	Air Outlet	4	Service Valve Cover	_	
2	Control Box	5	Gas Pipe Connection		
3	Power and Communication Cable Hole	6	Liquid Pipe Connection		
		288			

M38AKH.NR0

(Unit : mm)					
Item No.	Part Name	Remark	Item No.	Part Name	Remark
1	Refrigerant, Drain Pipe and Cable Routing Hole	Knock-out Type	4	Terminal Block for Power Supply and Communication	
2	Installation Plate		5	Display & Remote Controller Signal Receiver	
3	Drain Hose Connection		6	Decoration Cover	





M38AKH.UR0

(Unit : mm)		
ltem No.	Part Name	. 166
1	Air Outlet	
2	Control Box	
3	Power and Communication Cable Hole	Щ
4	Service Valve Cover	
5	Gas Pipe Connection	
6	Liquid Pipe Connection	<u>.</u>







