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# CASSETTE AIR CONDITIONERS

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# MODEL LINE-UP

## LG Cassette Air Conditioners

Discreet and versatile - LG Cassette Air Conditioners are Ideal for various applications including restaurants, hotels, offices and meeting rooms.

### CEILING MOUNTED CASSETTE

R32

	Indoor Unit	Outdoor Unit	Cooling Capacity (kW) Min - Rated - Max	Heating Capacity (kW) Min - Rated - Max
UBT24R			2.84 - 6.8 - 7.8	3.2 - 7.5 - 8.8
UBT36R			4.5 - 9.5 - 13.0	5.0 - 10.8 - 13.7
UBT48R			5.5 - 13.4 - 16.0	6.1 - 15.5 - 18.0

# CEILING MOUNTED CASSETTE

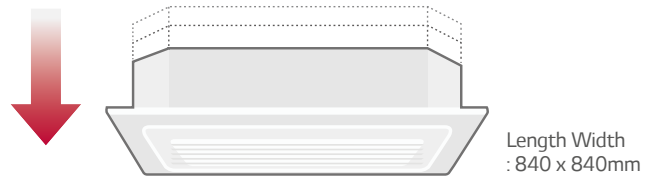
R32



# CEILING MOUNTED CASSETTE

## Compact Size

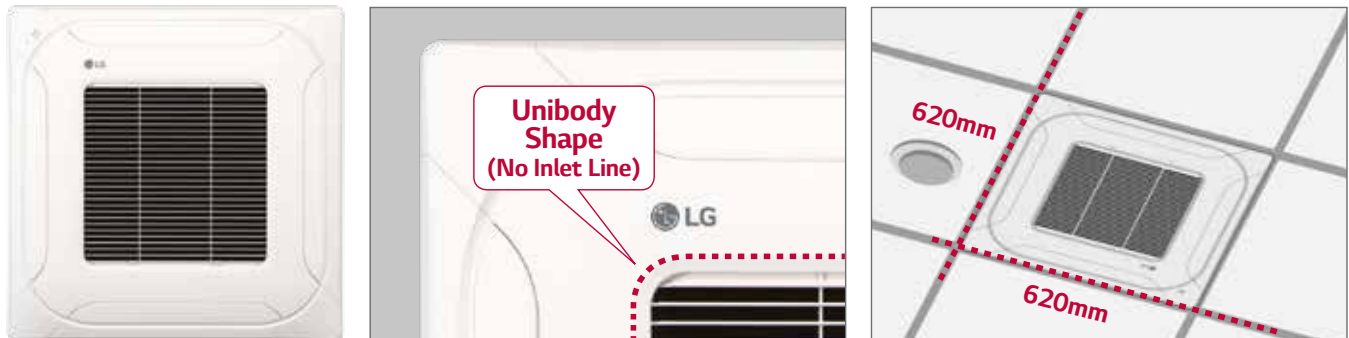
The indoor unit with slim and compact dimensions allows successful installation by easily accommodating it in various places of restricted area space.



Standard Inverter	Height
7.1 - 8.0kW	204mm
10.0kW	246mm
12.5 - 15kW	288mm

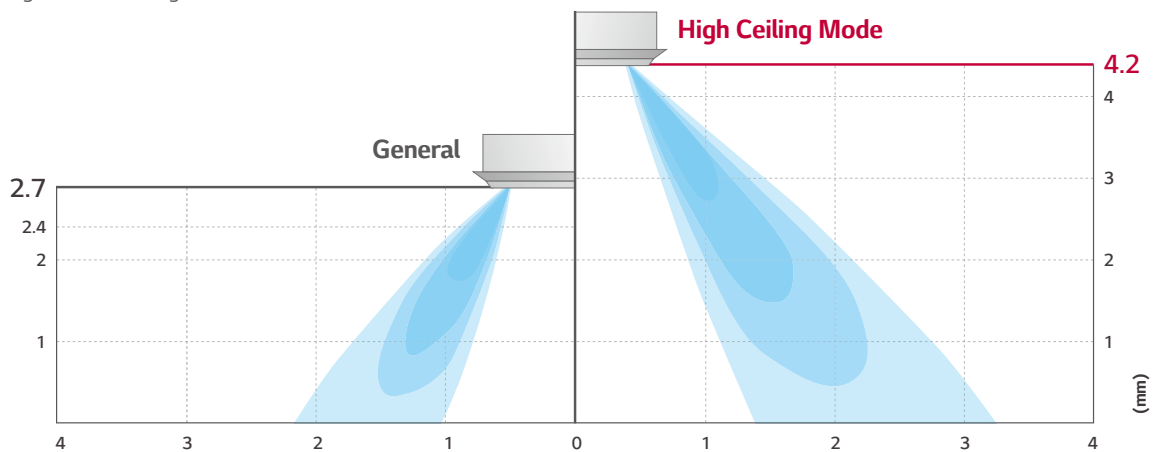
## 620 Panel – Compact and Stylish Design

- New 4 way cassette panel adapted unibody shape and matching with into the ceiling
- Panel size is fit into the ceiling tile



## High Ceiling Mode

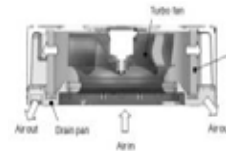
High ceiling mode provides powerful cooling and heating up to 4.2m in height, from ceiling to floor.



# Human detect sensor & humidity sensor



Human detection sensor (PTVSM-A0)



## Apply human detection sensor

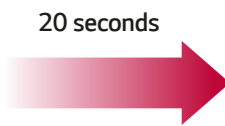
- Apply vision sensor
- Saving energy
- Supply comfortable flow
- Sensor is optional accessory only can be applied to PT-MCHW0

## Comfortable and Power Saving Control based on Humidity

- Apply humidity sensor
- Saving energy
- (To apply humidity sensor, new remote controller, PREMTB100 or PREMTBB10 is needed)

## • Detection

Motion sensors detect the activity of people per 20seconds



## • Detection range



Height 3.2 (15 x 8m)



Height 3.5 (16 x 10m)

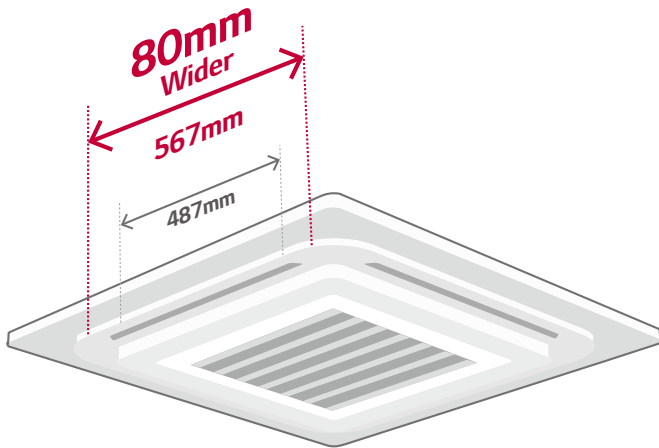


A sensor is installed 90° rotation 12 x 6m → 6 x 12m detecting

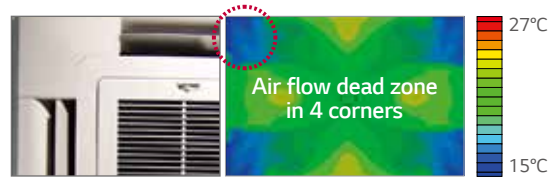
# CEILING MOUNTED CASSETTE

## 950/700 Panel – Wide Jet Air Flow

Improved vanes reduce the curved area and provide even distribution.



### Conventional



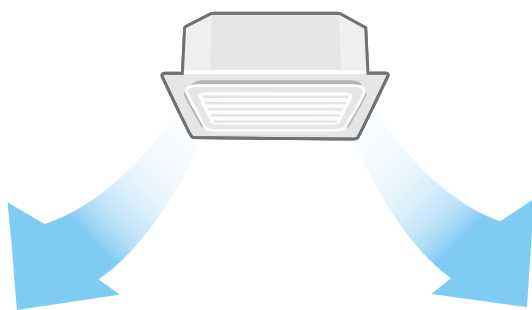
### LG Cassette



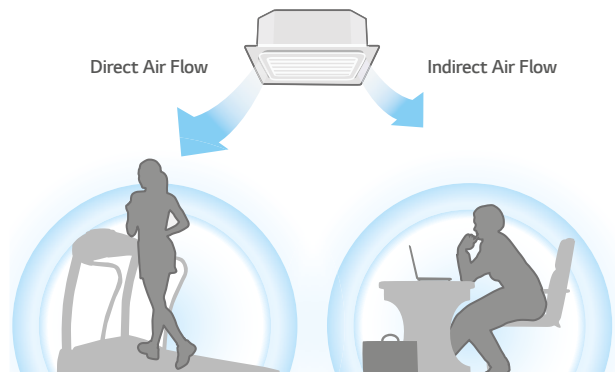
## Independent Vane Operation

The independent vane operation feature uses separate motors, making it possible to control all four vanes independently.

### All Vane Operation



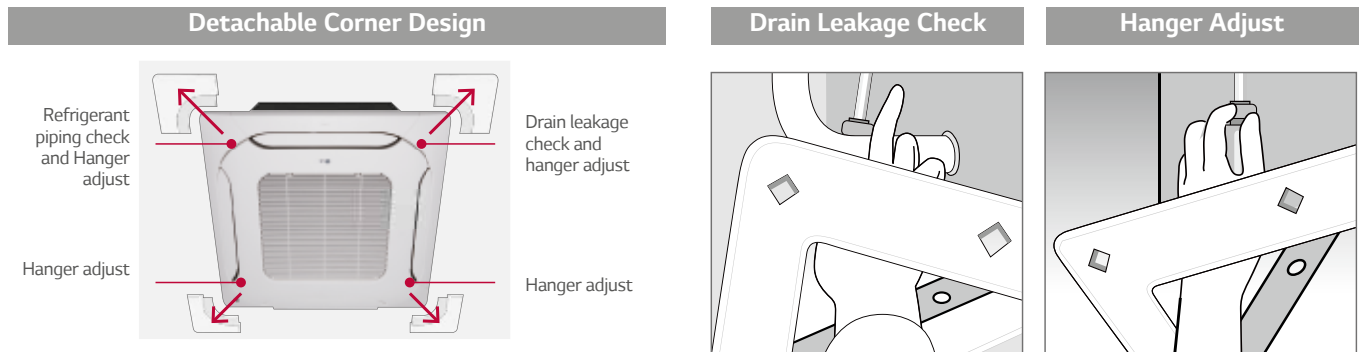
### Independent Vane Control



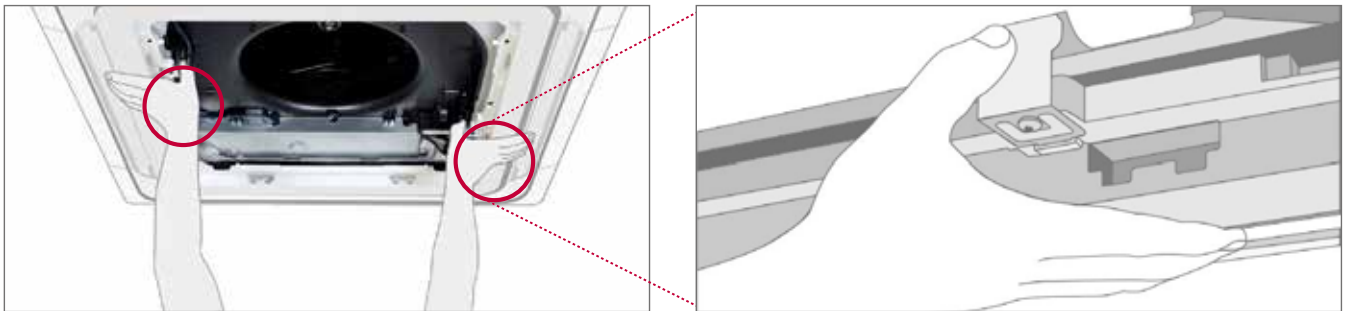
\* Wired remote controller PQRCVSL0 (QW) applied

## Convenient Panel Installation

The detachable corner design makes it convenient to adjust the hanger during installation and to check for leakages in the drain connection pipe.



It is easy to attach the panel to the body, using the button type panel design



## Auto Elevation Grille

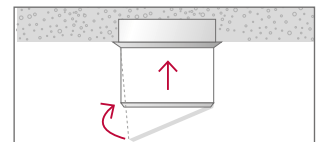
Easy filter cleaning by using the elevation grille.



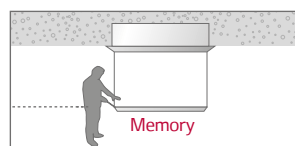
### 4-Point Support Structure



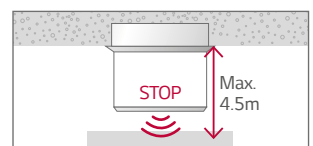
### Auto Leveling



### Memory for User's Level



### Auto Stop Detection



\* Operating with wired remote controller PREMTB100, PREMTB001 and wireless remote controller included in PTEGMO.

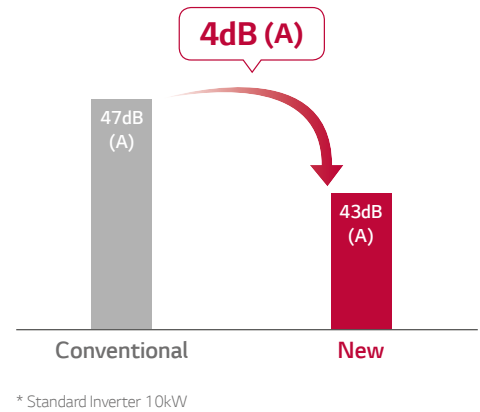
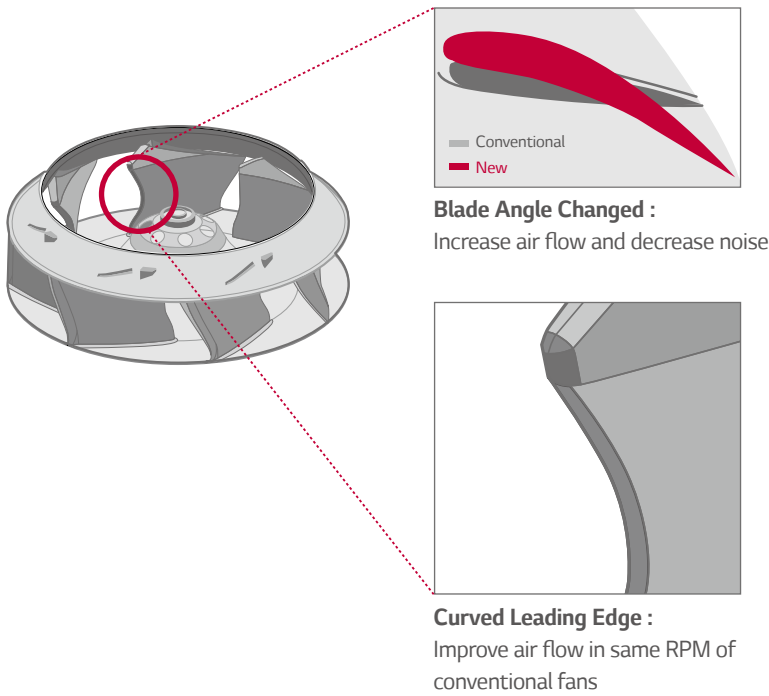
\* Except CT09 NR2 / CT12 NR2 / CT18 NQ2

\* Applied to cassette panel PT-UMC1

# CEILING MOUNTED CASSETTE

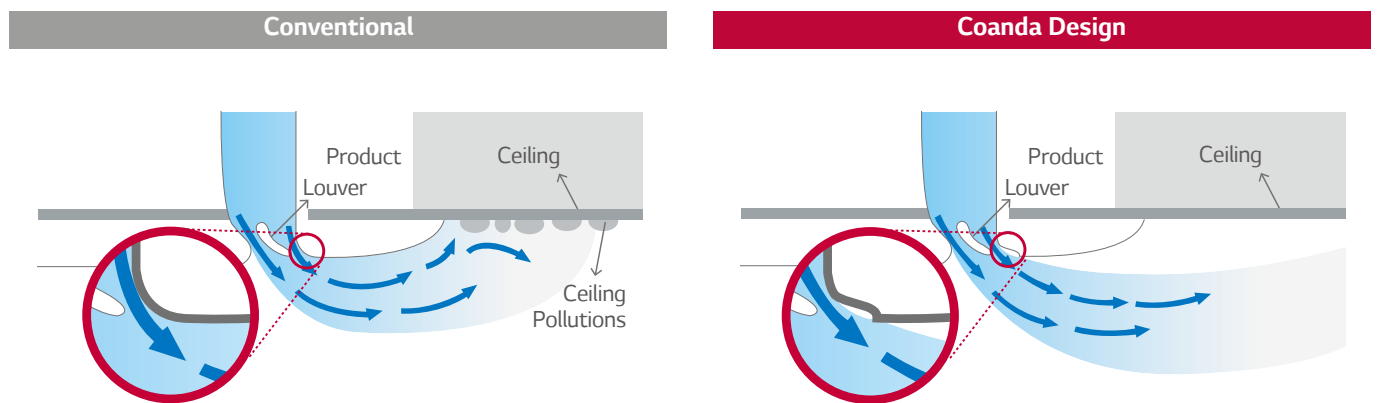
## Quiet Operation with 3D Fan

New technology of 3D fan is applied to H-Inverter cassettes 10 ~ 14kW. It increases air flow but reduces noise.



## Prevent Ceiling Pollution

Coanda design of air outlet can prevent contamination of ceiling.





# SINGLE SPLIT SPECIFICATIONS

## CEILING MOUNTED CASSETTE

UBT24R

UBT36R

UBT48R



Model		Unit	UTN24R	UTN36R	UTN48R
Rated Capacity	Cooling	kW	6.80	9.50	13.40
	Heating	kW	7.50	10.80	15.50
Capacity Range	Cooling	Min - Max kW	2.84 - 7.8	4.5 - 13.0	5.5 - 16.0
	Heating	Min - Max kW	3.2 - 8.3	5.0 - 13.7	6.1 - 18.0
Rated Power Input	Cooling	kW	1.95	2.47	4.27
	Heating	kW	1.88	2.80	4.80
AEER / ACOP	Cooling / Heating	-	3.461 / 3.969	3.769 / 3.788	3.113 / 3.207
EER / COP	Cooling / Heating	-	3.487 / 4.000	3.846 / 3.857	3.138 / 3.229
Rated Current	Cooling / Heating	A	8.60 / 8.80	10.7 / 12.2	18.9 / 21.0
Max. Current (Full Load Amps)	Indoor Unit	A	0.6	1.0	1.0
	Set	A	17	28	28
Air Flow Rate		L/s	283 / 250 / 216	500 / 416 / 333	550 / 466 / 366
External Static Pressure		Pa	-	-	-
Indoor	Sound Level at 1.5m	H / M / L Pressure dB(A)	38 / 36 / 34	46 / 43 / 40	47 / 44 / 41
	Dimensions	W x H x D mm	840 x 204 x 840	840 x 288 x 840	840 x 288 x 840
	Weight	kg	20.5	24.6	24.6
Outdoor	Sound Level at 1.5m	Cooling / Heating Pressure dB(A)	48 / 52	52 / 54	52 / 54
	Sound Power Level	dB(A)	67	66	68
	Dimensions	W x H x D mm	950 x 834 x 330	950 x 1,380 x 330	950 x 1,380 x 330
	Weight	kg	56.1	87.5	87.5
Power Supply		V / Phase / Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Circuit Breaker		A	25	40	40
Compressor Type		-	Twin Rotary	LG Inverter Scroll	LG Inverter Scroll
Refrigerant	Type	-	R32	R32	R32
	Precharged Length	m	7.5	7.5	7.5
Pipe Sizes	Liquid	mm/inch	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas	mm/inch	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain OD / ID	mm	Ø 32 / 25	Ø 32 / 25	Ø 32 / 25
Max. Pipe Length		m	50	85	85
Max. Height Difference	ODU - IDU	m	30	30	30
Supply Air Opening	H x W, Flange	mm	-	-	-
Return Air Opening	H x W, Flange	mm	-	-	-
Continuous Operating Range	Cooling	°C DB	- 15 - 48	- 15 - 48	- 15 - 48
	Heating	°C WB	- 18 - 18	- 18 - 18	- 18 - 18
Demand Response		-	X	X	X

Note: 1. Due to our policy of innovation some specifications may be changed without notification.

2. Definition of Power Input Nominal conditions – Performance tested under EN14511

3. Capacities are based on the following conditions:




Cooling: - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating: - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB

4. Annual energy consumption: based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition

5. This product contains fluorinated greenhouse gases (R32)

# ACCESSORIES

## INTERFACE DEVICE

Control Method	Objective/Use	Unit Name and Model	Function	Parts	Features
PI485 PMNFP14A1	To connect Outdoor unit to CNU or Simple Central Controller		<ul style="list-style-type: none"> <li>• RS485 Converter with software</li> <li>• For Max.16 Indoor</li> </ul>	<ul style="list-style-type: none"> <li>• PCB Assembly</li> <li>• Bracket</li> <li>• Lead wire: 3ea</li> <li>• Screw 4EA</li> <li>• Tie wrap</li> <li>• Clamp</li> <li>• Manual</li> </ul>	<ul style="list-style-type: none"> <li>• 1set/1 Outdoor</li> </ul>
Dry Contact PDRYCB100	For connect Indoor unit to other Forced on/off Controller		<ul style="list-style-type: none"> <li>• RS485 Converter with software</li> </ul>	<ul style="list-style-type: none"> <li>• PCB Assembly</li> <li>• Top case</li> <li>• Bottom case</li> <li>• Screw</li> <li>• Lead wire 3</li> <li>• Sub PCB set (1 leadwire + 1 sub PCB)</li> <li>• Manual</li> </ul>	<ul style="list-style-type: none"> <li>• 1set/1 Indoor unit</li> </ul>
Dry Contact PDRYCB400	For connect Indoor unit to other Forced on/off Controller		<ul style="list-style-type: none"> <li>• Contact signal to air-con signal converter</li> </ul>	<ul style="list-style-type: none"> <li>• PCB Assembly</li> <li>• Top/Bottom case</li> <li>• Screw</li> <li>• Lead wire 3ea</li> <li>• Sub PCB set (1 leadwire + 1 sub PCB)</li> <li>• Manual</li> </ul>	<ul style="list-style-type: none"> <li>• 1set/1 indoor unit</li> <li>• 2 Contact points</li> <li>• No need AC input</li> <li>• Expected temperature setting is possible</li> </ul>

\*Dred/Dry contact.

## PREMIUM DUCTED SYSTEM ACCESSORIES\*

Model	Description
PREMTB001	Standard Wired Wall Controller
PREMTA000	Premium Controller
PQWRHQ0FDB	Wireless Remote Control
PWFMD200	WiFi Dongle + 1.1m Cable
PWYREW000	10m Cable
PTVSMA0	Human Detection Sensor
PTEM0	Auto Elevation Grille

\*Refer to each model PDB for application accessories.

# ACCESSORIES

## BUILDING MANAGEMENT DEVICES

Control Method	Objective/Use	Unit Name and Model	Function	Parts	Features
BNU-LW PLNWKB000	To connect PI485 to LONWORKS BMS system		<ul style="list-style-type: none"> <li>Interface between BMS and LG air-conditioners (LonMark certified : Operation system based on LNS)</li> </ul>	<ul style="list-style-type: none"> <li>Interface Assembly</li> <li>12V DC adaptor</li> <li>Manual</li> </ul>	<ul style="list-style-type: none"> <li>64 indoor units</li> <li>ACP function (central controller) included</li> </ul>
BNU-BAC PQNFB17C 0	To connect PI485 to BACnet BMS system		<ul style="list-style-type: none"> <li>Interface between BMS and LG air-conditioners (BTL certified : Operation system based on BACnet service)</li> </ul>	<ul style="list-style-type: none"> <li>Interface Assembly</li> <li>12V DC adaptor</li> <li>Manual</li> </ul>	<ul style="list-style-type: none"> <li>256 Indoor units</li> <li>ACP function (central controller) included</li> <li>BTL certification (B-ASC)</li> </ul>
PDI STANDARD PPWRDB000	To Power consumption Distribution of each indoor unit 2-port		<ul style="list-style-type: none"> <li>Accumulation of total power consumption</li> <li>Indication of current power in use</li> <li>Indication of accumulated power for period</li> <li>Indication of standby power (option setting)</li> </ul>	<ul style="list-style-type: none"> <li>PDI Assembly Manual</li> </ul>	<ul style="list-style-type: none"> <li>1 PDI / 2 Outdoor</li> </ul>
PDI Premium PQNUD1S40	To power consumption distribution of each indoor unit 8-port		<ul style="list-style-type: none"> <li>Accumulation of total power consumption</li> <li>Indication of current power in use</li> <li>Indication of accumulated power for period</li> <li>Indication of standby power</li> <li>Blackout protection</li> </ul>	<ul style="list-style-type: none"> <li>PDI Assembly manual</li> </ul>	<ul style="list-style-type: none"> <li>1 PDI / 8 Outdoor</li> </ul>

1) PI485 : Product Interface unit for RS 485 transmission



For more information visit  
[lg.com/au/cassette](http://lg.com/au/cassette)