

PLA-ZP35/50/60/71/100/125/140EA PLA-RP35/50/60/71/100/125/140EA A complete line-up including deluxe units that offer added energy savings. The incorporation of wide air-outlet and the "3D i-see Sensor" enhances airflow distribution control, achieving an enhanced level of comfort throughout the room. The synergy of higher energy efficiency and more comfortable room environment results in the utmost user sat-

# Deluxe 4-way Cassette Line-up

For users seeking even further energy savings, Mitsubishi Electric now offers deluxe units (PLA-ZP) to complete the line-up of models in this series, from 35-140. Compared to the standard models (PLA-RP), deluxe models provide additional energy savings, contributing to a significant reduction in electricity costs.

### ■Line-up

isfaction.

Series Model	35	50	60	71	100	125	140
Deluxe 4-way Cassette (PLA-ZP)	PLA-ZP35EA	PLA-ZP50EA	PLA-ZP60EA	PLA-ZP71EA	PLA-ZP100EA	PLA-ZP125EA	PLA-ZP140EA
Standard 4-way Cassette (PLA-RP)	PLA-RP35EA	PLA-RP50EA	PLA-RP60EA	PLA-RP71EA	PLA-RP100EA	PLA-RP125EA	PLA-RP140EA

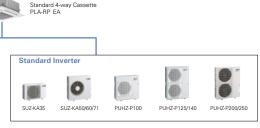
### ■Key Technologies for Higher Energy Efficiency 3D Turbo Fan

By optimizing the fan wing design using a three-dimensional shape, efficiency has been improved and operating noise reduced.

■Indoor/Outdoor Unit Combinations

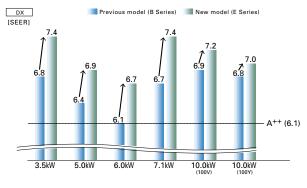


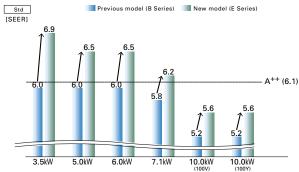


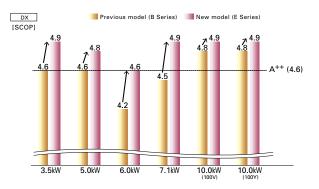


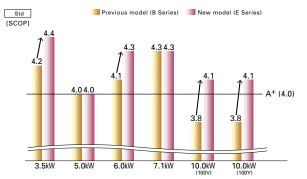
# **Energy-saving Performance**

SEER/SCOP has been greatly improved, realizing industry-leading energy-saving features.





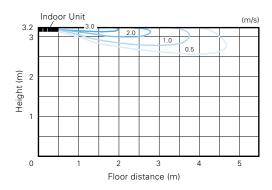




### Horizontal Airflow

The new airflow control removes that uncomfortable drafty feeling with the introduction of a horizontal airflow that spreads across the ceiling. The ideal airflow for offices and restaurants.

[Horizontal airflow] Model name: PLA-ZP140EA Ceiling height: 3.2m Mode: Cooling





# Automatic Grille Lowering Function (PLP-6EAJ)

An automatic grille lowering function is available for easy filter maintenance. Special wired and wireless remote controllers can be used to lower the intake grille for maintenance.







Wired Remote Controller



Wireless Remote Controller



# **Easy Installation**

### Electrical box wiring

After reviewing the power supply terminal position in the electrical box, the structure was redesigned to improve connectivity. This has made previously complex wiring work easier.

■ Previous model (B Series)



■ New model (E Series)



### Increased space for plumbing work

The top and bottom positions of the liquid and gas pipes have been reversed to allow the gas pipe work, which requires more effort, to be completed first. Further, through structural innovations related to the space around the pipes, the area where the spanner can be moved has been increased, thus improving liquid pipe work and enabling it to be completed smoothly.

■ Previous model (B Series)



■ New model (E Series)



### Temporary hanging hook

The structure of the panel has been revised and is now equipped with a temporary hanging hook. This has improved work efficiency during panel installation.





### No need to remove screws

Installation is possible without removing the screws for the corner panel and the control box, simply loosen them. This lowers the risk of losing screws.

■ Corner panel



■ Control box cover



### Lightweight decorative panel

After reviewing the structure and materials, weight has been reduced approximately 20% compared to the previous model, reducing the burden of installation.



# 3D F-see Sensor for S & P SERIES

### Detects number of people

3D i-see Sensor detects the number of people in the room and sets the air-conditioning power accordingly. This makes automatic power-saving operation possible in places where the number of people entering and exiting is large. Additionally, when the area is continuously unoccupied, the system switches to a more enhanced power-saving mode. Depending on the setting, it will save additional capacity or stop operation altogether.

### Detects people's position

Once the position of a person is detected, the duct angle of the vane is automatically adjusted in that direction. Each vane can be independently set to "block wind" or "not block wind" according to taste.

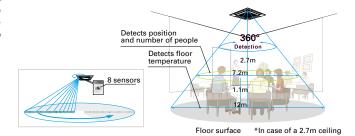


Detects number of people



Detects people's position





## Detects number of people

### Room occupancy energy-saving mode

The 3D i-see Sensor detects the number of people in the room. It then calculates the occupancy rate based on the maximum number of people in the room up to that point in time in order to save air-conditioning power. When the occupancy rate is approximately 30%, air-conditioning power equivalent to 1°C during both cooling and heating operation is saved. The temperature is controlled according to the number of people.

### No occupancy energy-saving mode

When 3D i-see Sensor detects that no one is in the room, the system is switched to a pre-set power-saving mode. If the room remains unoccupied for more than 60min, air-conditioning power equivalent to 2°C during both cooling and heating operation is saved. This contributes to preventing waste in terms of heating and cooling.

### No occupancy Auto-OFF mode

When the room remains unoccupied for a pre-set period of time, the air conditioner turns off automatically, thereby providing even greater power savings. The time until operation is stopped can be set in intervals of 10min, ranging from 60 to 180 min.

# Room occupancy energy save mode











\*PAR-32MAA is required for each setting

# Detects people's position

### Direct/Indirect settings\*

Some people do not like the feel of wind, some want to be warm from head to toe. People's likes and dislikes vary. With the 3D i-see Sensor, it is possible to choose to block or not block to the wind for each vane.



\*PAR-32MAA or PAR-SL100A-E is required for each setting

### Seasonal airflow\*

### <When cooling>

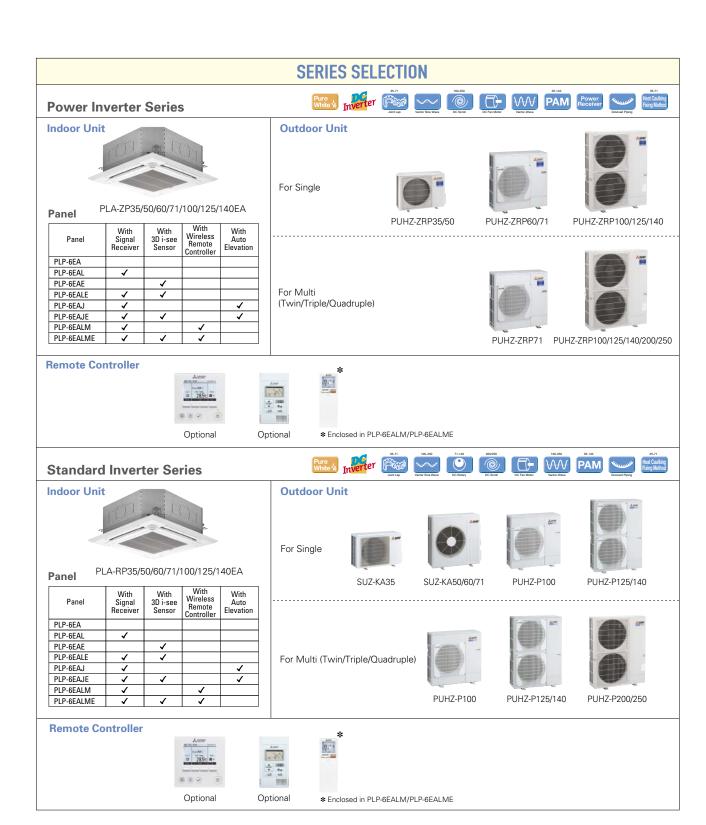
Saves energy while keeping a comfortable effective temperature by automatically switching between ventilation and cooling. When a pre-set temperature is reached, the air conditioning unit switches to swing fan operation to maintain the effective temperature. This clever function contributes to keeping a comfortable coolness.

### <When heating>

The air conditioning unit automatically switches between circulator and heating. Wasted heat that accumulates near the ceiling is reused via circulation. When a pre-set temperature is reached the air conditioner switches from heating to circulator and blows air in the horizontal direction. It pushes down the warm air that has gathered near the ceiling to people's height, thereby providing smart heating.



\*PAR-32MAA is required for each setting.



# $\label{planewave} \mbox{PLZ-ZP/RP EA Indoor Unit Combinations} \quad \mbox{Indoor unit combinations shown below are possible.}$

		Outdoor Unit Capacity																			
Indoor Unit Combination	For Single								For Twin						For Triple			For Quadruple			
			50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power	Inverter (PUHZ-ZRP)	35x1	50x1	60x1	71x1	100x1	125x1	140×1	-	_	35x2	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	-	-	-	-	-	-	-	-	-	N	ИSDD-	50TR-	E	MSDD-	50WR-E	MSI	DT-111	R-E	MSDF-1	1111R-E
Standa	ard Inverter (PUHZ-P & SUZ)	35x1	50x1	60x1	71x1	100x1	125x1	140×1	-	-	-	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	-	-	-	-	-	-	-	-	_	-	MSI	DD-50	ΓR-E	MSDD-	50WR-E	MSI	DT-111	R-E	MSDF-1	1111R-E



























































Туре					_		_	Invert <u>er</u> F	leat Pump	_					
Indoor Ur	nit			PLA-	PLA- ZP50EA	PLA- ZP60EA	PLA- ZP71EA	PLA-ZF	2100EA	PLA-ZF	P125EA	PLA-ZP140EA			
0				ZP35EA											
Outdoor	Unit			PUHZ- ZRP35VKA2	PUHZ- ZRP50VKA2	PUHZ- ZRP60VHA2	PUHZ- ZRP71VHA2	PUHZ- ZRP100VKA3	PUHZ- ZRP100YKA3	PUHZ- ZRP125VKA3	PUHZ- ZRP125YKA3	PUHZ- ZRP140VKA3	PUHZ- ZRP140YKA3		
Refrigera	nt							R41	0A*1						
Power	Source			Outdoor power supply											
Supply	Outdoor (V/Phase	/Hz)		VKA • VHA:230 / Single / 50, YKA:400 / Three / 50											
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4		
0009	oupuoit,	Min - Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.5	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.0	6.2 - 15.0		
	Total Input	Rated	kW	0.78	1.33	1.66	1.79	2.20	2.20	3.84	3.84	4.36	4.36		
	EER	,			_	-	_	_	_	3.25	3.25	3.07	3.07		
		EEL Rank		-	-	-	-	-	-	-	-	_	_		
	Design Load		kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4		
	Annual Electricity	Consumption*2	kWh/a	170	253	318	336	461	472	650	661	732	743		
	SEER			7.4	6.9	6.7	7.4	7.2	7.0	6.7*4	6.6*4	6.4*4	6.3*4		
		<b>Energy Efficiency Class</b>		A++	A++	A++	A++	A++	A++	-	-	-	-		
Heating	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0		
(Average Season)		Min - Max	kW	1.6 - 5.2	2.5 - 7.3	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0		
	Total Input	Rated	kW	0.85	1.55	1.89	1.90	2.60	2.60	3.67	3.67	4.84	4.84		
	COP			-	-	-	-	-	-	3.81	3.81	3.30	3.30		
		EEL Rank		-	-	-	-	-	-	-	-	-	-		
	Design Load		kW	2.5	3.8	4.4	4.7	7.8	7.8	9.3	9.3	10.6	10.6		
	<b>Declared Capacity</b>	at reference design temperature	kW	2.5 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	9.3 (-10°C)	9.3 (-10°C)	10.6 (-10°C)	10.6 (-10°C)		
		at bivalent temperature	kW	2.5 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	9.3 (-10°C)	9.3 (-10°C)	10.6 (-10°C)	10.6 (-10°C)		
		at operation limit temperature	kW	2.1 (-11°C)	3.7 (-11°C)	2.8 (-20°C)	3.5 (-20°C)	5.8 (-20°C)	5.8 (-20°C)	7.0 (-20°C)	7.0 (-20°C)	7.9 (-20°C)	7.9 (-20°C)		
	Back Up Heating C	apacity	kWh/a	0	0	0	0	0	0	0	0	0	0		
				714	1109	1337	1342	2229	2229	2768	2768	3297	3297		
	SCOP			4.9	4.8	4.6	4.9	4.9	4.9	4.7*4	4.7*4	4.5*4	4.5*4		
	Energy Efficiency Class			A++	A++	A++	A++	A++	A++	-	-	-	-		
	g Current (max)		Α	13.2	13.2	19.2	19.3	27.0	8.5	27.0	10.0	28.7	13.7		
Indoor	Input	Rated	kW	0.03	0.03	0.03	0.05	0.07	0.07	0.08	0.08	0.10	0.10		
Unit	Operating Current		А	0.21	0.22	0.22	0.34	0.47	0.47	0.52	0.52	0.66	0.66		
	Dimensions <panel></panel>	[H×W×D	mm	258 - 84	0 - 840 <40 - 95	0 - 950>				0 - 840 <40 - 95			07.5		
	Weight <panel></panel>		kg	11 10 15 10	21 <5>		24 <5>	26 <5>	26 <5>	27 <5>	27 <5>	27 <5>	27 <5>		
	Air Volume [Lo-Mi2		m³/min	26-28-29-31		12-14-16-18 27-29-31-32	17-19-21-23 28-30-33-36	19-22-25-28	31-34-37-40	21-24-26-29	21-24-26-29	24-26-29-32	24-26-29-32		
			dB(A)			54									
Outdoor	Sound Level (PWL Dimensions	H × W × D	dB(A) mm	51 630 - 80	54	943 - 950	57	61	61	62	62	65	65		
Unit	Weight	I H X W X D	kg	43	46	70	70	116	123	116	125	118	131		
Oiiit	Air Volume	Cooling	m³/min	43 45	45	55	55	110	110	120	120	120	120		
	All Volume	Heating	m³/min	45	45	55	55	110	110	120	120	120	120		
	Sound Level (SPL)	Cooling	dB(A)	45	44	47	47	49	49	50	50	50	50		
	Count Level (SFL)	Heating	dB(A)	46	46	48	48	51	51	52	52	52	52		
	Sound Level (PWL)		dB(A)	65	65	67	67	69	69	70	70	70	70		
		Operating Current (max) A		13.0	13.0	19.0	19.0	26.5	8.0	26.5	9.5	28.0	13.0		
	Breaker Size	\	Â	16	16	25	25	32	16	32	16	40	16		
Ext.	Diameter	Liquid / Gas	mm	6.35 / 12.7	6.35 / 12.7	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88		
Piping	Max. Length	Out-In	m	50	50	50	50	75	75	75	75	75	75		
	Max. Height	Out-In	m	30	30	30	30	30	30	30	30	30	30		
Guarante	ed Operating Range	Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46		
[Outdoor]		Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21		
		19					20 .21	. 20 .21	20 .21		20 .21		20 121		

<sup>\*\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with lipider GWP, if leaked to the atmosphere, the impact on global warming would be 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

\*3 Optional air protection guide is required where ambient temperature is lower than -5°C. \*4 SEER/SCOP values are measured based on EN14825. These values are reference purpose only.



































































			Optional	Optional	Optional	Optional	Opt	ional		Optional						
Туре								Inverter H	eat Pump							
Indoor U	nit			PLA- RP35EA	PLA- RP50EA	PLA- RP60EA	PLA- RP71EA	PLA-RF	PLA-RP100EA		P125EA	PLA-RP140EA				
Outdoor	Unit		SUZ- KA35VA6	SUZ- KA50VA6	SUZ- KA60VA6	SUZ- KA71VA6	PUHZ- P100VHA5	PUHZ- P100YHA3	PUHZ- P125VHA4	PUHZ- P125YHA2	PUHZ- P140VHA4	PUHZ- P140YHA2				
Refrigera	nt							R41	0A*1							
Power	Source			Outdoor power supply												
Supply	Outdoor (V/Phase	/Hz)					VA • VHA	4:230 / Single / 5	50, YHA:400 / T	hree / 50						
Cooling	Capacity Rated			3.6	5.5	5.7	7.1	9.4	9.4	12.3	12.3	13.6	13.6			
,		Min - Max	kW	1.4 - 3.9	2.3 - 5.6	2.3 - 6.3	2.8 - 8.1	4.9 - 11.2	4.9 - 11.2	5.5 - 14.0	5.5 - 14.0	5.5 - 15.0	5.5 - 15.0			
	Total Input	Rated	kW	1.02	1.61	1.76	2.10	3.48	3.48	4.08	4.08	5.21	5.21			
	EER			-	-	-	-	-	-	3.01	3.01	2.61	2.61			
		EEL Rank		-	-	-	-	-	-	В	В	D	D			
	Design Load		kW	3.6	5.5	5.7	7.1	9.4	9.4	-	-	-	-			
	Annual Electricity	Consumption*2	kWh/a	181	295	307	400	584	584	-	-	-	-			
	SEER			6.9	6.5	6.5	6.2	5.6	5.6	-	-	-	-			
		<b>Energy Efficiency Class</b>		A++	A++	A++	A++	A+	A+	-	-	-	_			
leating	Capacity	Rated	kW	4.1	5.8	6.9	8.0	11.2	11.2	14.0	14.0	16.0	16.0			
Average		Min - Max	kW	1.7 - 5.0	1.7 - 7.2	2.5 - 8.0	2.6 - 10.2	4.5 - 12.5	4.5 - 12.5	5.0 - 16.0	5.0 - 16.0	5.0 - 18.0	5.0 - 18.0			
eason)	Total Input	Rated	kW	1.00	1.69	1.97	2.24	3.28	3.28	4.10	4.10	4.98	4.98			
		COP		-	-	-	-	-	-	3.41	3.41	3.21	3.21			
	EEL Rank			-	-	-	-		-	В	В	С	С			
	Design Load		kW	2.6	4.3	4.6	5.8	8.0	8.0	-	-	-	-			
	Declared Capacity	at reference design temperature	kW	2.3 (-10°C)	3.8 (-10°C)	4.0 (-10°C)	4.7 (-10°C)	6.3 (-10°C)	6.3 (-10°C)	-	-	-	-			
		at bivalent temperature	kW	2.3 (-7°C)	3.8 (-7°C)	4.1 (-7°C)	5.1 (-7°C)	7.0 (-7°C)	7.0 (-7°C)	-	-	-	_			
		at operation limit temperature	kW	2.3 (-10°C)	3.8 (-10°C)	4.0 (-10°C)	4.7 (-10°C)	5.0 (-15°C)	5.0 (-15°C)	-	-	-				
	Back Up Heating Capacity		kW	0.3	0.5	0.6	1.1	1.7	1.7	-	-	-	-			
	Annual Electricity Consumption*2		kWh/a	826	1505	1498	1888	2717	2717	-	-	-	-			
	SCOP	Energy Efficiency Class		4.4	4.0	4.3 A <sup>+</sup>	4.3	4.1	4.1	-	-	-	-			
\	g Current (max)	Energy Efficiency Class	ΙΑ	A+ 8.4	A+ 12.2	14.2	A+ 16.4	A+ 28.5	A+ 13.5	28.7	13.7	30.2	13.7			
peratii ndoor		Rated	kW	0.03	0.03	0.03	0.04	0.07	0.07	0.10	0.10	0.10	0.10			
naoor Jnit	Input Operating Current		A	0.03	0.03	0.03	0.04	0.46	0.46	0.66	0.66	0.66	0.10			
,,,,,			mm			<40 - 950 - 950		0.40		0.66		0.00	0.00			
	Weight <panel></panel>	sions <panel> H × W × D</panel>		19 <5>	19 <5>	21 <5>	21 <5>	24 <5>	24 <5>	26 <5>	26 <5>	26 <5>	26 <5>			
	Air Volume [Lo-Miz	2_Mi1_Hil	kg m³/min			12-14-16-18		19-23-26-29				24-26-29-32				
	Sound Level (SPL)		dB(A)				28-30-32-34		31-34-37-40							
			dB(A)	51	54	54	56	61	61	65	65	65	65			
Outdoor	Dimensions	H×W×D	mm	550 - 800 - 285		880 - 840 - 330		943 - 950 -				- 330 (+30)				
Init	Weight		kg	35	54	50	53	75	77	99	101	99	101			
	Air Volume	Cooling	m³/min	36.3	44.6	40.9	50.1	60	60	119	119	119	119			
		Heating	m³/min	34.8	44.6	49.2	48.2	60	60	100	100	100	100			
	Sound Level (SPL)	Cooling	dB(A)	49	52	55	55	50	50	54	54	55	55			
		Heating	dB(A)	50	52	55	55	54	54	55	55	56	56			
			dB(A)	62	65	65	69	70	70	74	74	75	75			
	Operating Current (max) A			8.2	12.0	14.0	16.1	28.0	13.0	28.0	13.0	29.5	13.0			
	Breaker Size		Α	10	20	20	20	32	16	32	16	40	16			
xt.	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.8			
Piping	Max. Length	Out-In	m	20	30	30	30	50	50	50	50	50	50			
	Max. Height	Out-In	m	12	30	30	30	30	30	30	30	30	30			
	ed Operating Range	Cooling*3	°C	-10 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46			
Outdoor	J	Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21			

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP; I leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

\*3 Optional air protection guide is required where ambient temperature is lower than -5°C. \*4 SEER/SCOP values are measured based on EN14825. These values are reference purpose only.