

# PXZ SERIES

## Air-to-Air and Air-to-Water Hybrid Multi Split System

### 1 Unit, 2 Roles – Total Comfort Year-round

### Air Conditioning and Hot Water Supply Matching Every Home's Needs

All-in-one outdoor unit: air conditioning, domestic hot water supply and hot water heating



#### PXZ for summer

PXZ enables cooling of multiple rooms by ATA and supply hot water by ATW.



#### PXZ for winter

PXZ enables heating of multiple rooms by ATA and supply hot water by ATW.

## Indoor unit line up

### Air-to-Air Wall-mounted

MSZ-LN



MSZ-EF



MSZ-AP



### Floor-standing

MFZ



### 1-way Cassette

MLZ



### Ceiling-concealed

PEAD



SEZ



### Ceiling-suspended

PCA



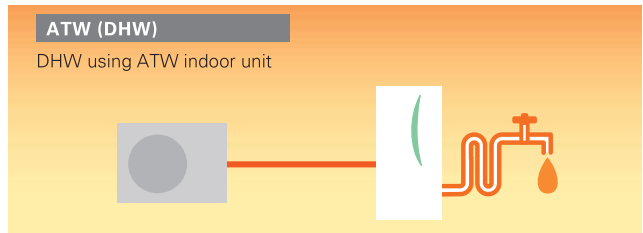
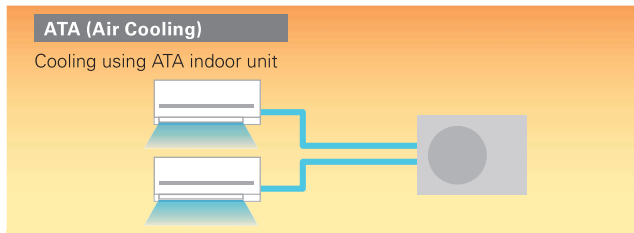
### Air-to-Water Ecodan Hydrobox/Cylinder



## Usage Patterns All-in-one System Solution

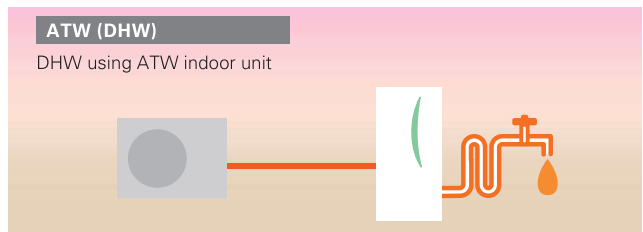
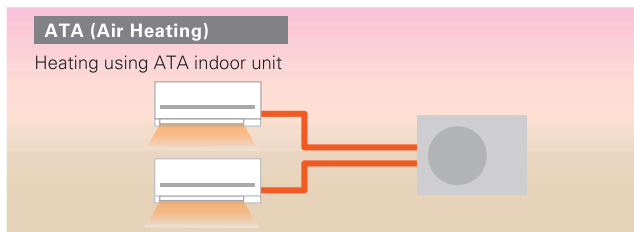
### Summer 2-in-1 Operation

Secure total indoor comfort by cooling with ATA and producing DHW by ATW in summer. During the times your ATA is not cooling, your heat pump will produce DHW stored in your tank. Hot summer days will become a breeze with cooling ATA and you can enjoy DHW for all your needs with ATW.



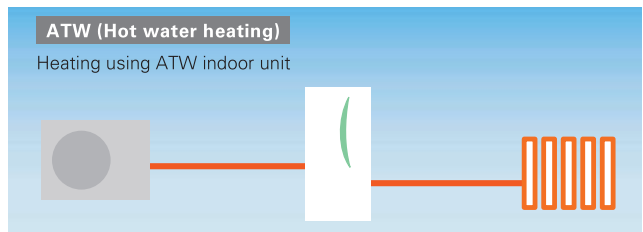
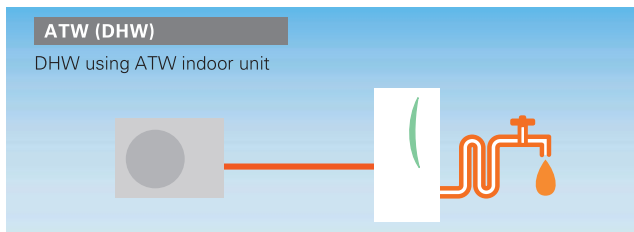
### Spring & Autumn 2-in-1 Operation

Secure total indoor comfort by heating with ATA and producing DHW by ATW in spring and autumn. During the times your ATA is not heating, your heat pump will produce DHW stored in your tank. ATA will quickly warm up your room even during the chilly morning and evening and you can enjoy DHW for all your needs with ATW.



### Winter ecodan

Secure total indoor comfort by heating and producing DHW by ATW in winter. During the times your ATW is not heating, your heat pump will produce DHW stored in your tank. ATW heating will keep your home warm all the day in severe cold weather and you can enjoy DHW for all your needs with ATW.

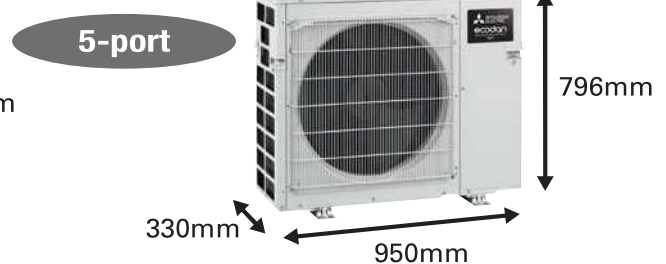
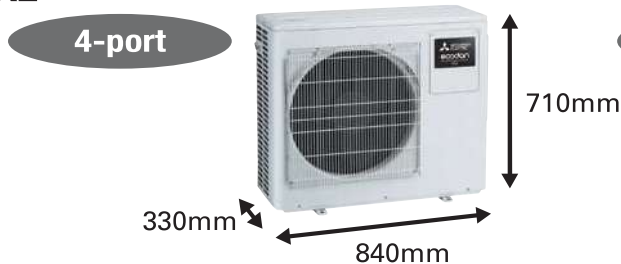


\* If DHW operation starts during ATA operation, ATA operation will temporarily stop. Therefore, it is recommended to set a schedule timer so that DHW operates during the night or when you are not at home.

### Outdoor unit line up

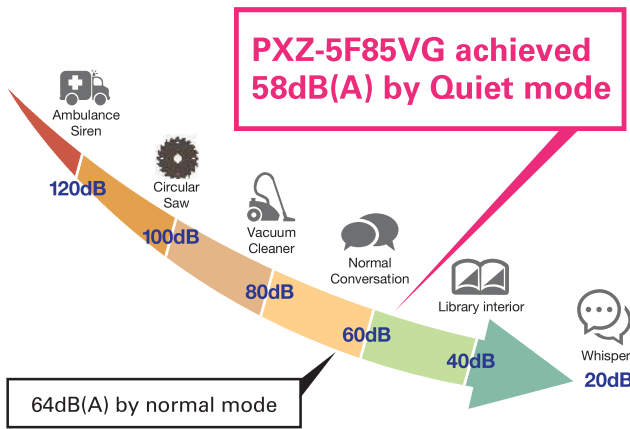
Compact design fitting into narrow spaces, ideal for condominiums and villas.

#### New system PXZ



## Quiet mode

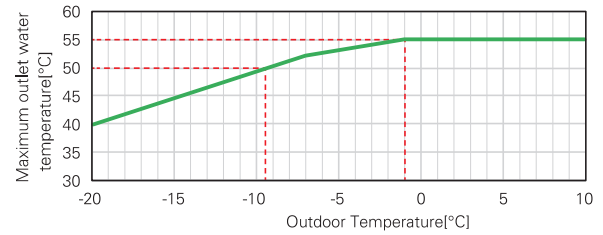
Quiet mode allows PXZ to run silently while cooling or heating your home.



- \* The cooling and heating capacity may drop if this function is activated.
- \* When the outside air temperature is low during heating, the heating capacity is prioritized and the unit may not be quiet. Also, if the outside air temperature is high during cooling, the cooling capacity is prioritized and the unit may not be quiet.
- \* Sound power level values are based on EN12102.
- \* Capacity values are based on EN14511
- \* To activate Quiet mode, changing the setting is required.

## Max 55°C outlet water temp

For the hot water supply with PXZ, a maximum outlet water temperature of 55°C is secured.



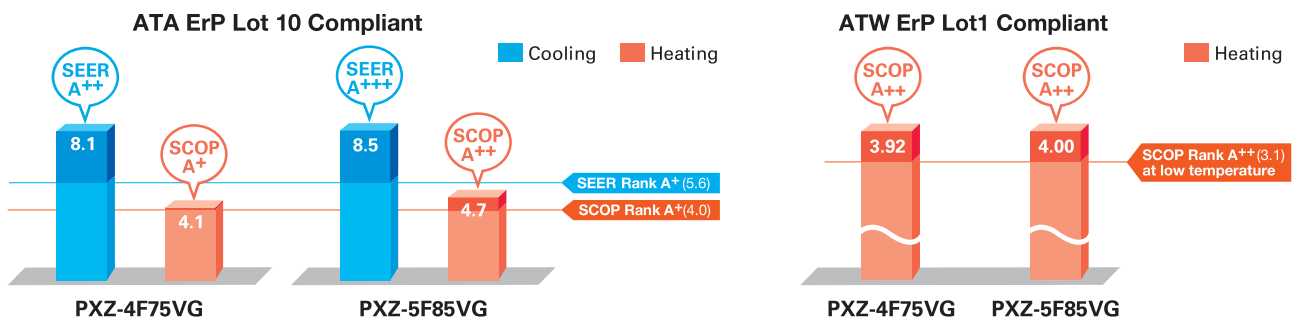
## High Performance Hot Water Supply

ErP Lot 1 Compliant with highest seasonal space heating energy efficiency class A++.

**A++** TIME FOR **R32** **A+**

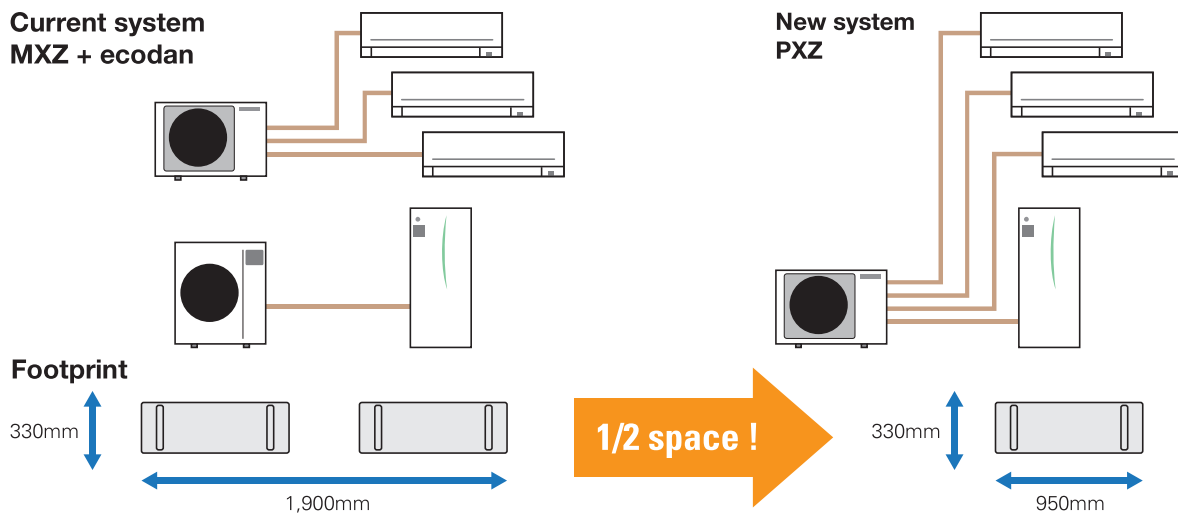
Low GWP refrigerant R32 contributes the reduction of CO<sub>2</sub> emission compared with conventional R410A refrigerant.

## A+++ Class Energy Efficiency



## New System Benefits

End users only need to purchase a single outdoor unit, as PXZ is connectable to both RAC and Ecodan. With house expansions or room redistributions, additional indoor units can be installed in the future.



**And more benefits like...**

- Cost saving by reducing the number of systems.
- Additional indoor units up to 4 or 5 ports can be installed.

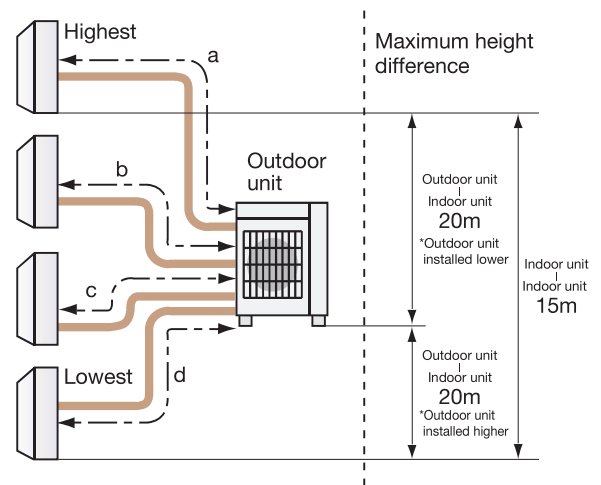
## Specifications

### PXZ-4F75VG

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d)	30m
Total length (a+b+c+d)	60m

Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d)	25
Total number (a+b+c+d)	60

### Indoor units

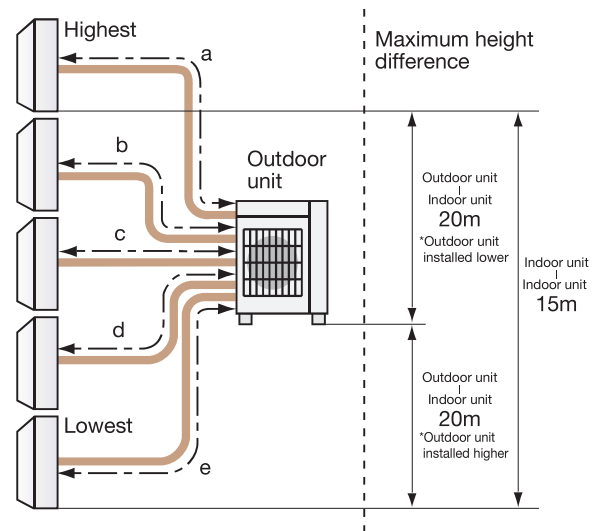


### PXZ-5F85VG

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d)	30m
Total length (a+b+c+d)	70m

Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d)	25
Total number (a+b+c+d)	70

### Indoor units



## Specifications

Outdoor Unit				PXZ-4F75VG	PXZ-5F85VG		
Air-to-Air (ATA)	Cooling	Capacity	Rated (35°C)	kW	7.2	8.3	
			Min-Max	kW	3.7-8.8	3.7-9.2	
		Total Input	Rated (35°C)	kW	1.85	1.97	
		EER			3.89	4.21	
		Design load		kW	7.2	8.3	
		Annual electricity consumption*1		kWh/a	311	342	
		SEER*2			8.1	8.5	
			Energy efficiency class		A++	A+++	
		Heating	Capacity	Rated (7°C)	kW	8.6	9.3
				Rated (-7°C)	kW	6.20	6.20
	Min-Max (7°C)			kW	3.4-10.7	3.4-11.6	
	Total Input		Rated (7°C)	kW	1.87	2.00	
	COP				4.60	4.65	
	Design load			kW	7.0	7.0	
	Declared Capacity		at reference design temperature	kW	5.6	5.8	
			at bivalent temperature	kW	6.2	6.2	
			at operation limit temperature	kW	4.8	4.9	
	Back up heating capacity			kW	1.4	1.2	
	Annual electricity consumption*1		kWh/a	2,389	2,087		
	SCOP*2			4.1	4.7		
	Energy efficiency class		A+	A++			
Sound Level (SPL)	Cooling		dB(A)	48	49		
	Heating		dB(A)	54	51		
Sound Power Level (PWL)	Cooling		dB(A)	63	61		
	Heating		dB(A)	69	63		
Outdoor unit	Supply(V/Phase/Hz)			230V/1phase/50Hz			
	Air Volume	ATA heating	m3/min	42.7	62		
		ATA Cooling	m3/min	35.4	57		
		ATW heating	m3/min	42.7	62		
		ATW DHW (ecodan indoor unit)	m3/min	42.7	62		
	Guaranteed Operating Range	ATA heating	°C	-20°C DB-24°C DB	-20°C DB-24°C DB		
		ATA Cooling	°C	-10°C DB-46°C DB	-10°C DB-46°C DB		
		ATW heating	°C	-20°C DB-24°C DB	-20°C DB-24°C DB		
		ATW DHW (ecodan indoor unit)	°C	-20°C DB-35°C DB	-20°C DB-35°C DB		
	Dimensions	H×W×D	mm	710×840(+30)×330(+66)	796×950×330		
	Weight		kg	59	62		
	Packaged Dimension	H×W×D	mm	870×1010×460	950×1050×440		
	Packaged Weight		kg	68	74		
Operating Current (max)		A	18	21.4			
Breaker Size		A	25	25			
Ext.Piping	Diameter	Liquid/Gas	mm	6.35x4/12.7x1+9.52x3	6.35x5/12.7x1+9.52x4		
	Each indoor unit piping length (max)		m	30	30		
	Max.Length	Out-In	m	60	70		
	Max.Height	Out-In	m	20	20		
	Chargeless length		m	60	70		
	Refrigerant	Amount	Pre-charged	kg	2.4	2.4	
Maximum			kg	2.4	2.4		
Number of total port	Available indoor unit ATA	Quantity		1-3	1-4		
	Available indoor unit ATW	Quantity		1	1		
ecodan connection (Mitsubishi Electric supplied indoor unit)	Heating*4	A7W35	Capacity nom	kW	7.5	8.5	
			Capacity max	kW	9.3	10.0	
		Total Input nom	kW	1.80	1.96		
		Total Input max	kW	2.61	2.51		
		COP nom		4.17	4.34		
		COP max		3.57	3.99		
		A7W55	Capacity	kW	7.50	8.50	
			Total Input	kW	3.05	3.26	
		A2W35	Capacity nom	kW	6.80	7.80	
			Capacity max	kW	6.80	7.80	
			Total Input nom	kW	2.43	2.60	
			Total Input max	kW	2.43	2.60	
			COP nom		2.80	3.00	
			COP max		2.80	3.00	
	SSHE 35°C Average condition	Class		A++	A++		
		ηS		154%	157%		
		SCOP		3.92	4.00		
		Class		A+	A+		
	SSHE 55°C Average condition	Class		A+	A+		
		ηS		113%	111%		
		SCOP		2.91	2.86		
		Class		A+	A+		
	DHW (ecodan indoor unit)	DHW 200L Load Profile	Class	A+	A+		
		Average condition	ηWH	124%	122%		
	Max outlet water temperature	COP DHW		2.99	2.97		
			°C	55	55		
Sound Level (SPL)	Heating		dB(A)	57	54		
	DHW (ecodan indoor unit)		dB(A)	57	54		
Sound Power Level (PWL)	Heating		dB(A)	67	64		
	DHW (ecodan indoor unit)		dB(A)	67	64		

\*1 Energy consumption is based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

\*2 SEER/SCOP values are measured based on EN14825.

\*3 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, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 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. The GWP of R32 is 675 in the IPCC 4th Assessment Report.

\*4 Air-to-Water values are measured based on EN14511 (Circulation pump input is not included.).

## PXZ + ecodan ATA Compatibility Table

Indoor unit		Outdoor unit	PXZ	
			4F75VG	5F85VG
M series	Wall Mounted	MSZ-RW25VG	○	○
		MSZ-RW35VG	○	○
		MSZ-RW50VG	○	○
		MSZ-LN18VG2	○	○
		MSZ-LN25VG2	○	○
		MSZ-LN35VG2	○	○
		MSZ-LN50VG2	○	○
		MSZ-LN60VG2		
		MSZ-EF18VG(K)	○	○
		MSZ-EF22VG(K)	○	○
		MSZ-EF25VG(K)	○	○
		MSZ-EF35VG(K)	○	○
		MSZ-EF42VG(K)	○	○
		MSZ-EF50VG(K)	○	○
		MSZ-AP15VG(K)	○	○
		MSZ-AP20VG(K)	○	○
		MSZ-AP25VG(K)	○	○
		MSZ-AP35VG(K)	○	○
		MSZ-AP42VG(K)	○	○
		MSZ-AP50VG(K)	○	○
	MSZ-AP60VG(K)	○	○	
	MSZ-AP71VG(K)	○	○	
	MSZ-AY25VGK(P)	○	○	
	MSZ-AY35VGK(P)	○	○	
	MSZ-AY42VGK(P)	○	○	
	MSZ-AY50VGK(P)	○	○	
	MSZ-BT20VG(K)	○	○	
	MSZ-BT25VG(K)	○	○	
	MSZ-BT35VG(K)	○	○	
	MSZ-BT50VG(K)			
	Floor Standing*1	MSZ-BT50VG(K)	○	○
		MFZ-KT35VG	○	○
		MFZ-KT50VG	○	○
1-way Cassette*2	MLZ-KP25VF	○	○	
	MLZ-KP35VF	○	○	
	MLZ-KP50VF	○	○	
	MLZ-KY20VG	○	○	
S series	Ceiling Concealed	SEZ-M25DA(L)	○	○
		SEZ-M35DA(L)	○	○
		SEZ-M50DA(L)	○	○
		SEZ-M60DA(L)	○	○
		SEZ-M71DA(L)		○
		SEZ-M25DA(L)2	○	○
		SEZ-M35DA(L)2	○	○
		SEZ-M50DA(L)2	○	○
		SEZ-M60DA(L)2	○	○
		SEZ-M71DA(L)2		○
P series	Ceiling Suspended*3	PCA-M50KA	○	
		PCA-M60KA	○	
		PCA-M71KA		
		PCA-M50KA2	○	
		PCA-M60KA2	○	
	Ceiling Concealed*3	PEAD-M50JA(L)	○	○
		PEAD-M60JA(L)	○	○
	PEAD-M71JA(L)	○	○	

\*Total ATA IU HEX volume should NOT exceed a certain level. Please contact us for the further information.

- \*1 When connecting to MFZ, MAC-001MF is required to install to suppress noise.
- \*2 When connecting to MLZ, electric heater is required for outlet water temperature over 40°C.
- \*3 When connecting to PEAD-M60/71 or PCA-M60/71, it is prohibited to connect other ATA.

## PXZ + ecodan ATW Compatibility Table

Indoor unit		Outdoor unit	PXZ	
			4F75VG	5F85VG
Cylinder	EHST17D-VM2D	○	○	
	EHST17D-YM9D	○	○	
	EHST20D-VM2D	○	○	
	EHST20D-VM6D	○	○	
	EHST20D-YM9D	○	○	
	EHST20D-YM9ED	○	○	
	EHST20D-TM9D	○	○	
	EHST30D-VM6ED	○	○	
	EHST30D-YM9ED	○	○	
	EHST30D-TM9ED	○	○	
	ERST17D-VM2D	○	○	
	ERST17D-VM6D	○	○	
	ERST20D-VM2D	○	○	
	ERST20D-VM6D	○	○	
	ERST20D-YM9D	○	○	
	ERST30D-VM2ED	○	○	
	ERST30D-VM6ED	○	○	
	ERST30D-YM9ED	○	○	
	Hydrobox	EHSD-VM2D	○	○
		EHSD-VM6D	○	○
EHSD-YM9D		○	○	
EHSD-YM9ED		○	○	
EHSD-TM9D		○	○	
ERSD-VM2D		○	○	
ERSD-VM6D		○	○	
ERSD-YM9D		○	○	

## New Optional Parts Compatibility Table

Parts name	Model name	PXZ	
		4F75VG	5F85VG
Drain hose heater connector	MAC-062RA-E	○	○
Muffler*	MAC-001MF-E	○	○

\*Please connect the muffler to the gas piping within 3 meters from the piping connection port of the outdoor unit.

\*Please attach this if you are concerned about refrigerant noise.