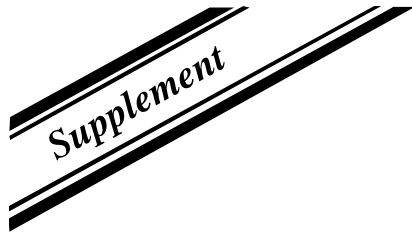


Service Manual

Air Conditioner



Indoor Unit
CS-TZ60TKEW
CS-TZ71TKEW

Outdoor Unit
CU-TZ60TKE
CU-TZ71TKE

Subject: Revise of Specifications

Please file and use this supplement manual together with the service manual for Model No. CS-TZ60/71TKEW
CU-TZ60/71TKE Order No : PAPAMY1704060CE

 WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the products dealt with in this service information by anyone else could result in serious injury or death.

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- **Multi Split Combination Possibility:**

- A single outdoor unit enables air conditioning of up to two separate rooms for CU-2RE15SBE, CU-2RE18SBE.
- A single outdoor unit enables air conditioning of up to three separate rooms for CU-3RE18SBE.

CONNECTABLE INDOOR UNIT		OUTDOOR UNIT						
		CU-2RE15SBE*		CU-2RE18SBE*		CU-3RE18SBE*		
ROOM		A	B	A	B	A	B	C
TYPE								
Wall	1.6kW	CS-MTZ16TKE	•	•	•	•	•	•
	2.0kW	CS-TZ20TKEW	•	•	•	•	•	•
	2.5kW	CS-TZ25TKEW	•	•	•	•	•	•
	3.2kW	CS-TZ35TKEW	–	•	•	•	–	•
	4.0kW	CS-TZ42TKEW	–	•	–	•	–	•
	5.0kW	CS-TZ50TKEW	–	•	–	•	–	•
Capacity range of connectable indoor units		From 4.0kW to 5.7kW		From 4.0kW to 7.5kW		From 4.5kW to 9.0kW		
Pipe length	1 room maximum pipe length (m)		20		20		25	
	Allowable elevation (m)		10		10		15	
	Total allowable pipe length (m)		30		30		50	
	Total pipe length for maximum chargeless length (m)		20		20		30	
	Additional gas amount over chargeless length (g/m)		15		15		20	
Note: "•" : Available								
<p>Remarks for CU-2RE15SBE / CU-2RE18SBE</p> <p>1. The total nominal cooling capacity of indoor units that will be connected to outdoor unit must be within connectable capacity range of indoor unit. (as shown in the table above) Example: The indoor units' combination below is possible to connect to CU-2RE15SBE. (Total nominal capacity of indoor units is between 4.0kW to 5.7kW) 1) Two CS-TZ20TKEW only. (Total nominal cooling capacity is 4.0kW)</p>								
<p>Remarks for CU-3RE18SBE</p> <p>1. The total nominal cooling capacity of indoor units that will be connected to outdoor unit must be within connectable capacity range of indoor unit. (as shown in the table above) Example: The indoor units' combination below is possible to connect to CU-3RE18SBE. (Total nominal capacity of indoor units is between 4.5kW to 9.0kW) 1) Two CS-TZ25TKEW only. (Total nominal cooling capacity is 5.0kW)</p>								

Note*: Above outdoor unit is contains and operates with refrigerant R410A gas.

- **Multi Split Combination Possibility:**

- A single outdoor unit enables air conditioning of up to two separate rooms for CU-2E12SBE, CU-2E15SBE, CU-2E18SBE.
- A single outdoor unit enables air conditioning of up to three separate rooms for CU-3E23SBE.

CONNECTABLE INDOOR UNIT		CU-2E12SBE*		CU-2E15SBE*		CU-2E18SBE*		CU-3E23SBE*		
ROOM		A	B	A	B	A	B	A	B	C
Wall	1.6kW	CS-MTZ16TKE	•	•	•	•	•	•	•	•
	2.0kW	CS-TZ20TKEW	•	•	•	•	•	•	•	•
	2.5kW	CS-TZ25TKEW	•	•	•	•	•	•	•	•
	3.2kW	CS-TZ35TKEW	–	•	–	•	•	•	•	•
	4.0kW	CS-TZ42TKEW	–	•	–	•	–	•	–	•
	5.0kW	CS-TZ50TKEW	–	•	–	•	–	•	–	•
	6.0kW	CS-TZ60TKEW	–	–	–	–	–	•	–	–
Capacity range of connectable units		From 3.2kW to 5.7kW		From 3.2kW to 5.7kW		From 3.2kW to 7.5kW		From 4.5kW to 11.0kW		
Pipe length	1 room maximum pipe length (m)		20		20		20		25	
	Allowable elevation (m)		10		10		10		15	
	Total allowable pipe length (m)		30		30		30		60	
	Total pipe length for maximum chargeless length (m)		20		20		20		30	
	Additional gas amount over chargeless length (g/m)		15		15		15		20	
Note: "•" : Available										
Remarks for CU-2E12SBE / CU-2E15SBE / CU-2E18SBE										
1. The total nominal cooling capacity of indoor unit that will be connected to outdoor unit must be within connectable capacity range of indoor unit. (as shown in the table above) Example: The indoor units' combination below is possible to connect to CU-2E15SBE. (Total nominal capacity of indoor units is between 3.2kW to 5.7kW) 1) Two CS-TZ20TKEW only. (Total nominal cooling capacity is 4.0kW)										
Remarks for CU-3E23SBE										
1. The total nominal cooling capacity of indoor unit that will be connected to outdoor unit must be within connectable capacity range of indoor unit. (as shown in the table above) Example: The indoor units' combination below is possible to connect to CU-3E23SBE. (Total nominal capacity of indoor units is between 4.5kW to 11.0kW) 1) Two CS-TZ25TKEW only. (Total nominal cooling capacity is 5.0kW)										

Note*: Above outdoor unit is contains and operates with refrigerant R410A gas.

- **Multi Split Combination Possibility:**

- A single outdoor unit enables air conditioning of up to three separate rooms for CU-3E18PBE.
- A single outdoor unit enables air conditioning of up to four separate rooms for CU-4E23PBE, CU-4E27PBE.
- A single outdoor unit enables air conditioning of up to five separate rooms for CU-5E34PBE.

CONNECTABLE INDOOR UNIT		CU-3E18PBE*			CU-4E23PBE*				CU-4E27PBE*				CU-5E34PBE*					
ROOM		A	B	C	A	B	C	D	A	B	C	D	A	B	C	D	E	
Wall	1.6kW	CS-MTZ16TKE	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	2.0kW	CS-TZ20TKEW	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	2.5kW	CS-TZ25TKEW	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	3.2kW	CS-TZ35TKEW	–	•	•	–	•	•	•	•	•	•	•	•	•	•	•	
	4.0kW	CS-TZ42TKEW	–	•	•	–	–	•	•	–	•	•	•	–	•	•	•	
	5.0kW	CS-TZ50TKEW	–	–	•	–	–	•	•	–	–	•	•	–	–	•	•	
	6.0kW	CS-TZ60TKEW	–	–	•	–	–	–	•	–	–	•	•	–	–	–	•	
	7.1kW	CS-TZ71TKEW	–	–	•	–	–	–	•	–	–	–	•	–	–	–	•	
Capacity range of connectable units		From 4.5kW to 9.0kW			From 4.5kW to 11.0kW				From 4.5kW to 13.6kW				From 4.5kW to 17.5kW					
Pipe length	1 room maximum pipe length (m)		25			25				25				25				
	Allowable elevation (m)		15			15				15				15				
	Total allowable pipe length (m)		50			60				70				80				
	Total pipe length for maximum chargeless length (m)		30			30				45				45				
	Additional gas amount over chargeless length (g/m)		20			20				20				20				
Note: "•": Available																		
Remarks for CU-3E18PBE / CU-4E23PBE / CU-4E27PBE / CU-5E34PBE																		
1. The total nominal cooling capacity of indoor unit that will be connected to outdoor unit must be within connectable capacity range of indoor unit. (as shown in the table above) Example: The indoor units' combination below is possible to connect to CU-4E27PBE. (Total nominal capacity of indoor units is between 4.5kW to 13.6kW) 1) Two CS-TZ25TKEW only. (Total nominal cooling capacity is 5.0kW)																		

Note*: Above outdoor unit is contains and operates with refrigerant R410A gas.

- **Multi Split Combination Possibility:**

- A single outdoor unit enables air conditioning of up to two separate rooms for CU-2Z35TBE, CU-2Z41TBE, CU-2Z50TBE.

CONNECTABLE INDOOR UNIT			OUTDOOR UNIT					
			CU-2Z35TBE		CU-2Z41TBE		CU-2Z50TBE	
ROOM			A	B	A	B	A	B
Wall	1.6kW	CS-MZ16TKE	•	•	•	•	•	•
		CS-MTZ16TKE						
	2.0kW	CS-Z20TKEW						
		CS-XZ20TKEW	•	•	•	•	•	•
		CS-TZ20TKEW						
		CS-TE20TKEW						
	2.5kW	CS-Z25TKEW						
		CS-XZ25TKEW	•	•	•	•	•	•
		CS-TZ25TKEW						
		CS-TE25TKEW						
		CS-E9PD3EA						
		CS-E9PB4EA						
	3.2kW	CS-Z35TKEW						
		CS-XZ35TKEW	•	-	•	-	•	•
		CS-TZ35TKEW						
		CS-TE35TKEW						
		CS-E12QD3EAW						
		CS-E12PB4EA						
	4.0kW	CS-Z42TKEW						
		CS-TZ42TKEW	•	-	•	-	•	-
		CS-TE42TKEW						
	5.0kW	CS-Z50TKEW						
		CS-XZ50TKEW	•	-	•	-	•	-
		CS-TZ50TKEW						
		CS-TE50TKEW						
		CS-E18RD3EAW						
CS-E18RB4EAW								
Capacity range of connectable indoor units			3.2kW ~ 6.0kW		3.2kW ~ 6.0kW		3.2kW ~ 7.7kW	
Pipe Length	1-room maximum pipe length (m)		20		20		20	
	Allowable elevation (m)		10		10		10	
	Total allowable pipe length (m)		30		30		30	
	Total pipe length for maximum chargeless length (m)		20		20		20	
	Additional gas amount over chargeless length (g/m)		15		15		15	

Note*: Above outdoor unit is contains and operates with refrigerant R32 gas.

- **Multi Split Combination Possibility:**

- A single outdoor unit enables air conditioning of up to four separate rooms for CU-4Z68TBE
- A single outdoor unit enables air conditioning of up to three separate rooms for CU-3Z68TBE, CU-3Z52TBE.

CONNECTABLE INDOOR UNIT			CU-4Z68TBE				CU-3Z68TBE			CU-3Z52TBE		
ROOM			A	B	C	D	A	B	C	A	B	C
Wall	1.6kW	CS-MTZ16TKE CS-MZ16TKE	•	•	•	•	•	•	•	•	•	•
	2.0kW	CS-TE20TKEW CS-TZ20TKEW CS-XZ20TKEW CS-Z20TKEW	•	•	•	•	•	•	•	•	•	•
	2.5kW	CS-TE25TKEW CS-TZ25TKEW CS-XZ25TKEW CS-Z25TKEW CS-E9PB4EA CS-E9PD3EA	•	•	•	•	•	•	•	•	•	•
	3.2kW	CS-TE35TKEW CS-TZ35TKEW CS-XZ35TKEW CS-Z35TKEW CS-E12PB4EA CS-E12QD3EAW	-	•	•	•	•	•	•	-	•	•
	4.0kW	CS-TE42TKEW CS-TZ42TKEW CS-Z42TKEW	-	-	•	•	-	•	•	-	•	•
	5.0kW	CS-TE50TKEW CS-TZ50TKEW CS-XZ50TKEW CS-Z50TKEW CS-E18RB4EAW CS-E18RD3EAW	-	-	•	•	-	-	•	-	-	•
	6.0kW	CS-TE60TKEW CS-TZ60TKEW CS-E21RB4EAW	-	-	-	•	-	-	•	-	-	•
Capacity range of connectable units			From 4.5kW to 11.5kW				From 4.5kW to 11.2kW			From 4.5kW to 9.5kW		
Pipe length	1 room maximum pipe length (m)		25				25			25		
	Allowable elevation (m)		15				15			15		
	Total allowable pipe length (m)		60				60			50		
	Total pipe length for maximum chargeless length (m)		30				30			30		
	Additional gas amount over chargeless length (m)		20				20			20		
Note: "•": Available												
Remarks for CU-3Z68TBE												
1. The total nominal cooling capacity of indoor unit that will be connected to outdoor unit must be within connectable capacity range of indoor unit. (as shown in the table above) Example: The indoor units' combination below is possible to connect to CU-3Z68TBE. (Total nominal capacity of indoor units is between 4.5kW to 11.2kW) 1) Two CS-Z25TKEW only. (Total nominal cooling capacity is 5.0kW)												

Note*: Above outdoor unit is contains and operates with refrigerant R32 gas.