

3. Specifications

3.1 CU-2Z52VBR

Item		Unit	Outdoor Unit						
Indoor Unit Combination			2.5kW + 2.5kW						
Power Supply		Phase, Hz	Single, 50						
		V	230			240			
			Min.	Mid.	Max.	Min.	Mid.	Max.	
Cooling Operation	Capacity		kW	1.50	5.20	6.00	1.50	5.20	6.00
			BTU/h	5120	17700	20500	5120	17700	20500
	Electrical Data	Running Current	A	6.1			5.9		
		Input Power	W	250	1.35k	1.62k	250	1.35k	1.62k
		EER	W/W	6.00	3.85	3.70	6.00	3.85	3.70
		Power Factor	%	95			95		
	Noise	Sound Pressure Level	dB-A (H/L)	51 / -					
Sound Power Level		dB (H/L)	66 / -						
Heating Operation	Capacity		kW	1.10	6.10	7.20	1.10	6.10	7.20
			BTU/h	3750	20800	24600	3750	20800	24600
	Electrical Data	Running Current	A	6.4			6.2		
		Input Power	W	210	1.43k	1.90k	210	1.43k	1.90k
		COP	W/W	5.24	4.27	3.79	5.24	4.27	3.79
		Power Factor	%	97			96		
	Noise	Sound Pressure Level	dB-A (H/L)	53 / -					
Sound Power Level		dB (H/L)	68 / -						
Max Current		A	11.5						
Max Input Power		W	2.62k						
Starting Current		A	6.4						
Dimension	Height	mm	619						
	Width	mm	824 (+70)						
	Depth	mm	299						
Net Weight		kg	39						
Pipe Length Range (1 room)			3 ~ 20						
Maximum Pipe Length (Total Room)			30						
Piping	Standard Length	m	5						
	Height Different	m	10						
	Additional Gas Amount	g/m	15						
	Length for Additional Gas)	m	20						
Refrigerant Pipe Diameter	Liquid Side	mm (inch)	6.35 (1/4)						
	Gas Side	mm (inch)	9.52 (3/8)						
Compressor	Type		Hermetic Motor / Rotary						
	Motor Type		Brushless (4-poles)						
	Rated Output	W	900						
Fan Motor	Type		Propeller Fan						
	Motor Type		DC (8-poles)						
	Rated Output	W	40						
Fan Speed	High (Cooling / Heating)	RPM	900 / 1000						

Item		Unit	Outdoor Unit		
Heat Exchanger	Type		Plate fin configuration forced draft type		
	Tube Material		Copper		
	Fin Material		Aluminum (Blue Coat)		
	Row/ Stage		2 x 28		
	FPI		17		
Air Volume	High (Cooling / Heating)	m ³ /min (ft ³ /min)	36.9 (1303) / 41.1 (1451)		
Refrigerant Control Device			Expansion Valve		
Refrigerant Oil		cm ³	FW50S (450)		
Refrigerant (R32)		g	1.12k		
			Dry Bulb	Wet Bulb	
Outdoor Operation Range	Cooling	Maximum	°C (°F)	46 (114.8)	26 (78.8)
		Minimum	°C (°F)	-10 (14.0)	-
	Heating	Maximum	°C (°F)	24 (75.2)	18 (64.4)
		Minimum	°C (°F)	-15 (5.0)	-16 (3.2)

Note

- Specifications are subject to change without notice for further improvement.

• **Multi Split Combination Possibility:**

- A single outdoor unit enables air conditioning of up to two separate rooms for CU-2Z52VBR.
- A single outdoor unit enables air conditioning of up to three separate rooms for CU-3Z54VBR.
- A single outdoor unit enables air conditioning of up to four separate rooms for CU-4Z71VBR.

CONNECTABLE INDOOR UNIT			OUTDOOR UNIT								
			CU-2Z52VBR		CU-3Z54VBR			CU-4Z71VBR			
TYPE		ROOM	A	B	A	B	C	A	B	C	D
			Wall	1.6kW	CS-MRZ16VKR	•	•	•	•	•	•
2.0kW	CS-MRZ20VKR	•		•	•	•	•	•	•	•	•
2.5kW	CS-RZ25VKRW	•		•	•	•	•	•	•	•	•
	CS-Z25UD3RAW CS-Z25UB4RAW	•		•	•	•	•	•	•	•	•
3.5kW	CS-RZ35VKRW	•		•	•	•	–	•	•	•	–
	CS-Z35UD3RAW CS-Z35UB4RAW	•		•	•	•	–	•	•	•	–
4.2kW	CS-RZ42VKRW	•	–	•	•	–	•	•	–	–	
5.0kW	CS-RZ50VKRW	•	–	•	–	–	•	•	–	–	
	CS-Z50UD3RAW CS-Z50UB4RAW	•	–	•	–	–	•	•	–	–	
Capacity range of connectable indoor units			From 3.2kW to 7.7kW		From 4.5kW to 9.5kW			From 4.5kW to 11.5kW			
Pipe length	1 room maximum pipe length (m)		3 ~ 20		3 ~ 25			3 ~ 25			
	Allowable elevation (m)		10		15			15			
	Total allowable pipe length (m)		30		50			60			
	Total pipe length for maximum chargeless length (m)		20		30			30			
	Additional gas amount over chargeless length (g/m)		15		20			20			
Note: “•” : Available											
<p>Remarks for CU-2Z52VBR</p> <ol style="list-style-type: none"> At least two indoor units must be connected. 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-2Z52VBR. (Total nominal capacity of indoor units is between 3.2kW to 7.7kW) 1) Two CS-RZ25VKRW only. (Total nominal cooling capacity is 5.0kW) 											
<p>Remarks for CU-3Z54VBR</p> <ol style="list-style-type: none"> At least two indoor units must be connected. 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-3Z54VBR. (Total nominal capacity of indoor units is between 4.5kW to 9.5kW) 1) Two CS-RZ35VKRW only. (Total nominal cooling capacity is 7.0kW) 											
<p>Remarks for CU-4Z71VBR</p> <ol style="list-style-type: none"> At least two indoor units must be connected. 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-4Z71VBR. (Total nominal capacity of indoor units is between 4.5kW to 11.5kW) 1) Two CS-RZ50VKRW only. (Total nominal cooling capacity is 10.0kW) 											

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-4Z80VBR.
- A single outdoor unit enables air conditioning of up to five separate rooms for CU-5Z100VBR.

CONNECTABLE INDOOR UNIT			OUTDOOR UNIT								
			CU-4Z80VBR		CU-5Z100VBR						
ROOM		A	B	C	D	A	B	C	D	E	
TYPE											
Wall	1.6kW	CS-MRZ16VKR	•	•	•	•	•	•	•	•	
	2.0kW	CS-MRZ20VKR	•	•	•	•	•	•	•	•	
	2.5kW	CS-RZ25VKRW CS-Z25UD3RAW CS-Z25UB4RAW	•	•	•	•	•	•	•	•	•
		CS-RZ35VKRW CS-Z35UD3RAW CS-Z35UB4RAW	•	•	•	•	•	•	•	•	•
	4.2kW	CS-RZ42VKRW	•	•	•	–	•	•	•	•	–
	5.0kW	CS-RZ50VKRW CS-Z50UD3RAW CS-Z50UB4RAW	•	•	–	–	•	•	•	–	–
		CS-RZ60VKRW CS-Z60UD3RAW CS-Z60UB4RAW	•	•	–	–	•	•	•	–	–
	7.1kW	CS-RZ71VKRW	•	•	–	–	•	•	–	–	–
Capacity range of connectable indoor units			From 4.5kW to 14.7kW			From 4.5kW to 18.3kW					
Pipe length	1 room maximum pipe length (m)		3 ~ 25			3 ~ 25					
	Allowable elevation (m)		15			15					
	Total allowable pipe length (m)		70			80					
	Total pipe length for maximum chargeless length (m)		45			45					
	Additional gas amount over chargeless length (g/m)		20			20					
Note: “•”: Available											
Remarks for CU-4Z80VBR											
1. At least two indoor units must be connected.											
2. 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-4Z80VBR. (Total nominal capacity of indoor units is between 4.5kW to 14.7kW)											
1) Two CS-RZ60VKRW only. (Total nominal cooling capacity is 12.0kW)											
Remarks for CU-5Z100VBR											
1. At least two indoor units must be connected.											
2. 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-5Z100VBR. (Total nominal capacity of indoor units is between 4.5kW to 18.3kW)											
1) Two CS-RZ60VKRW only. (Total nominal cooling capacity is 12.0kW)											

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

Refer Appendix 1 for Multi Split Combination Table details.