

NEW
2011

PANEL
CZ-KPY2



OPTIONAL CONTROLLER

Timer remote controller
CZ-RTC2

Wireless remote controller
CZ-RWSY2
CZ-RWSC2

Simplified remote controller
CZ-REZC2

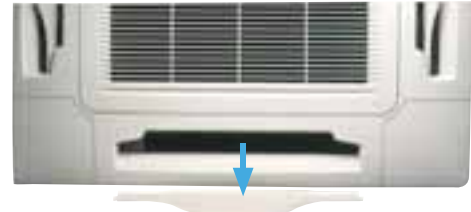


TECHNICAL FOCUS

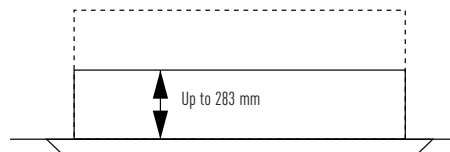
- MINI CASSETTE FITS INTO A 600x600 mm CEILING GRID
- FRESH AIR KNOCK OUT
- MULTIDIRECTIONAL AIR FLOW
- ANTI-MOULD AND ANTI-BACTERIA WASHABLE FILTERS
- POWERFUL DRAIN PUMP GIVES 850 mm LIFT
- TURBO FANS AND HEAT EXCHANGER FINS WITH IMPROVED DESIGN
- DC FAN MOTORS WITH VARIABLE SPEED, NEW HEAT EXCHANGERS, ETC. ENSURE AN EFFICIENT POWER CONSUMPTION
- OPTIONAL AIR-INTAKE PLENUM CZ-ATU2

Special designed flap

The flap can be removed easily for washing with water.

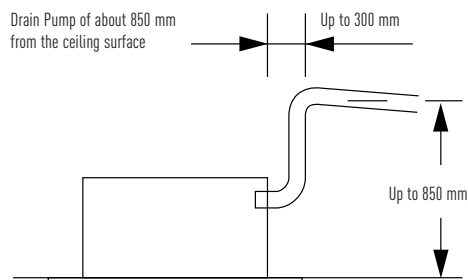


A lightweight unit at 18.4 kg the unit is also very slim with a height of only 283 mm, making installation possible even in narrow ceilings.



A drain height of approx. 850 mm from the ceiling surface

The drain height can be increased by approximately 350 mm over the conventional value by using a high-lift drain pump, and long horizontal piping is possible.





Y1 TYPE 4-WAY CASSETTE 60X60 // MINI SEMI CONCEALED CASSETTE

Designed to fit exactly into a 600 x 600 mm ceiling grid without the need to alter the bar configuration, the Y1 is ideal for small commercial and retrofit applications. In addition, the improvements to efficiency make this one of the most advanced units in the industry.

environmentally friendly refrigerant R410A	easy maintenance SELF-DIAGNOSING	for more comfort AUTOMATIC FAN	perfect humidity control MILD DRY	further comfort AUTO-FLAP CONTROL	practical operation AUTOMATIC RESTART	comfort everywhere AIR SWEEP	easy to install BUILT-IN DRAIN PUMP
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MODEL NAME			S-22MY1E5	S-28MY1E5	S-36MY1E5	S-45MY1E5	S-56MY1E5
Power source			220/230/240 V, 1 phase - 50, 60 Hz				
Cooling capacity	kW		2.2	2.8	3.6	4.7	5.6
	BTU/h		7,500	9,600	12,000	16,000	19,000
Heating capacity	kW		2.5	3.2	4.2	5.0	6.3
	BTU/h		8,500	11,000	14,000	17,000	21,000
Power input	Cooling	kW	0.024/0.025/0.025	0.024/0.025/0.025	0.026/0.027/0.027	0.030/0.031/0.031	0.037/0.038/0.038
	Heating	kW	0.014/0.015/0.015	0.014/0.015/0.015	0.017/0.017/0.018	0.020/0.021/0.021	0.029/0.029/0.029
Running current	Cooling	A	0.16/0.16/0.15	0.16/0.16/0.15	0.18/0.18/0.17	0.21/0.21/0.20	0.29/0.29/0.28
	Heating	A	0.13/0.13/0.12	0.13/0.13/0.12	0.15/0.15/0.14	0.18/0.18/0.17	0.26/0.26/0.25
Fan	Type		Centrifugal fan	Centrifugal fan	Centrifugal fan	Centrifugal fan	Centrifugal fan
	Airflow rate (H/M/L)	m ³ /min	480/420/360	480/420/360	540/480/420	640/510/450	750/630/540
	Motor output	kW	0.030	0.030	0.030	0.030	0.030
Sound power level (L/M/H)		dB(A)	36/38/41	36/38/41	37/40/43	39/43/47	44/48/52
Sound pressure level (L/M/H)		dB(A)	25/27/30	25/27/30	26/29/32	28/32/36	33/37/41
Dimensions	H x W x D	mm	283+(30) x 575 (625) x 575 (625)	283+(30) x 575 (625) x 575 (625)	283+(30) x 575 (625) x 575 (625)	283+(30) x 575 (625) x 575 (625)	283+(30) x 575 (625) x 575 (625)
	Pipe connections						
Pipe connections	Liquid	inches (mm)	1/4 (Ø6.35)	1/4 (Ø6.35)	1/4 (Ø6.35)	1/4 (Ø6.35)	1/4 (Ø6.35)
	Gas	inches (mm)	1/2 (Ø12.7)	1/2 (Ø12.7)	1/2 (Ø12.7)	1/2 (Ø12.7)	1/2 (Ø12.7)
	Drain piping		VP-20	VP-20	VP-20	VP-20	VP-20
Net weight		kg	18,4	18,4	18,4	18,4	18,4

GLOBAL REMARKS	Rated conditions:		
	Cooling	Heating	
	Indoor air temperature	27°C DB / 19°C WB	20°C DB
Outdoor air temperature	35°C DB / 24°C WB	7°C DB / 6°C WB	

Specifications subject to change without notice.

3. 4-Way Cassette 60×60 Type (Y1 Type)

3-1. Specifications

Unit specifications (A)

MODEL No.	Indoor Unit		S-22MY1E5					
POWER SOURCE			220 - 230 - 240 V, single-phase, 50/60 Hz					
PERFORMANCE			Cooling			Heating		
Capacity	kW		2.2			2.5		
	BTU / h		7,500			8,500		
Air circulation (Hi / Me / Lo)		m ³ / h	480 / 420 / 360					
Moisture removal (High)		Liters / h	0.2			-		
ELECTRICAL RATINGS								
Voltage rating		V	220	230	240	220	230	240
Available voltage range		V	198 - 264			198 - 264		
Running amperes		A	0.16	0.16	0.15	0.13	0.13	0.12
Power input		W	24	25	25	14	15	15
Power factor		%	68	68	69	49	50	52
Max. starting amperes		A	-	-	-	-	-	-
FEATURES								
Controls			Microprocessor					
Timer			ON / OFF Timer (Max. 72 hr)					
Fan speeds			3 and Automatic control					
Air filter			Washable, easy access, long life (2,500 hr)					
Refrigerant control			Electronic expansion valve					
Operation sound (Hi / Me / Lo)		dB-A	30 / 27 / 25					
Refrigerant tubing connections			Flare type					
Refrigerant tube diameter	Liquid tube	mm (in.)	6.35 (1 / 4)					
	Gas tube	mm (in.)	12.7 (1 / 2)					
Drain connection			OD26 mm					
Drain pump			Max. head 635 mm above drain connection					
Panel			Optional (CZ-KPY2)					
Remote controller			Optional (Wired / Wireless)					
Refrigerant tubing kit / Accessories			Optional / -					
Color (Approximate value)			Munsell 2.5GY 9.0 / 0.5, RAL 9001-GL (resemblant color)					
DIMENSIONS & WEIGHT			Indoor unit (including panel)			Package		
Unit dimensions	Height	mm (in.)	313 (12-21 / 64)			290 (11-27 / 64)	105 (4-9 / 64)	
	Width	mm (in.)	625 (24-39 / 64)			714 (28-7 / 64)	665 (26-3 / 16)	
	Depth	mm (in.)	625 (24-39 / 64)			630 (24-51 / 64)	678 (26-11 / 16)	
Net weight		kg (lbs.)	18.4 (40.6)			-		
Shipping weight		kg (lbs.)	-			19 (41.9)	3.5 (7.7)	
Shipping volume		m ³ (cu.ft)	-			0.13 (4.6)	0.047 (1.7)	

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Rated conditions

Cooling: Indoor air temperature 27°C DB / 19°C WB; Outdoor air temperature 35°C DB

Heating: Indoor air temperature 20°C DB; Outdoor air temperature 7°C DB / 6°C WB

3. 4-Way Cassette 60×60 Type (Y1 Type)

Unit specifications (B)

MODEL No.	Indoor Unit		S-28MY1E5					
POWER SOURCE			220 - 230 - 240 V, single-phase, 50/60 Hz					
PERFORMANCE			Cooling			Heating		
Capacity	kW		2.8			3.2		
	BTU / h		9,600			11,000		
Air circulation (Hi / Me / Lo)		m ³ / h	480 / 420 / 360					
Moisture removal (High)		Liters / h	0.6			-		
ELECTRICAL RATINGS								
Voltage rating		V	220	230	240	220	230	240
Available voltage range		V	198 - 264			198 - 264		
Running amperes		A	0.16	0.16	0.15	0.13	0.13	0.12
Power input		W	24	25	25	14	15	15
Power factor		%	68	68	69	49	50	52
Max. starting amperes		A	-	-	-	-	-	-
FEATURES								
Controls		Microprocessor						
Timer		ON / OFF Timer (Max. 72 hr)						
Fan speeds		3 and Automatic control						
Air filter		Washable, easy access, long life (2,500 hr)						
Refrigerant control		Electronic expansion valve						
Operation sound (Hi / Me / Lo)		dB-A	30 / 27 / 25					
Refrigerant tubing connections		Flare type						
Refrigerant tube diameter	Liquid tube	mm (in.)	6.35 (1 / 4)					
	Gas tube	mm (in.)	12.7 (1 / 2)					
Drain connection		OD26 mm						
Drain pump		Max. head 635 mm above drain connection						
Panel		Optional (CZ-KPY2)						
Remote controller		Optional (Wired / Wireless)						
Refrigerant tubing kit / Accessories		Optional / -						
Color (Approximate value)		Munsell 2.5GY 9.0 / 0.5, RAL 9001-GL (resemblant color)						
DIMENSIONS & WEIGHT			Indoor unit (including panel)			Package		
Unit dimensions	Height	mm (in.)	313 (12-21 / 64)			290 (11-27 / 64)	105 (4-9 / 64)	
	Width	mm (in.)	625 (24-39 / 64)			714 (28-7 / 64)	665 (26-3 / 16)	
	Depth	mm (in.)	625 (24-39 / 64)			630 (24-51 / 64)	678 (26-11 / 16)	
Net weight		kg (lbs.)	18.4 (40.6)			-	-	
Shipping weight		kg (lbs.)	-			19 (41.9)	3.5 (7.7)	
Shipping volume		m ³ (cu.ft)	-			0.13 (4.6)	0.047 (1.7)	

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Rated conditions

Cooling: Indoor air temperature 27°C DB / 19°C WB; Outdoor air temperature 35°C DB

Heating: Indoor air temperature 20°C DB; Outdoor air temperature 7°C DB / 6°C WB

3. 4-Way Cassette 60×60 Type (Y1 Type)

Unit specifications (C)

MODEL No.	Indoor Unit		S-36MY1E5					
POWER SOURCE			220 - 230 - 240 V, single-phase, 50/60 Hz					
PERFORMANCE			Cooling			Heating		
Capacity	kW		3.6			4.2		
	BTU / h		12,000			14,000		
Air circulation (Hi / Me / Lo)		m ³ / h	540 / 480 / 420					
Moisture removal (High)		Liters / h	1.1			-		
ELECTRICAL RATINGS								
Voltage rating	V		220	230	240	220	230	240
Available voltage range		V	198 - 264			198 - 264		
Running amperes		A	0.18	0.18	0.17	0.15	0.15	0.14
Power input		W	26	27	27	17	17	18
Power factor		%	66	65	66	52	49	54
Max. starting amperes		A	-	-	-	-	-	-
FEATURES								
Controls			Microprocessor					
Timer			ON / OFF Timer (Max. 72 hr)					
Fan speeds			3 and Automatic control					
Air filter			Washable, easy access, long life (2,500 hr)					
Refrigerant control			Electronic expansion valve					
Operation sound (Hi / Me / Lo)		dB-A	32 / 29 / 26					
Refrigerant tubing connections			Flare type					
Refrigerant tube diameter	Liquid tube	mm (in.)	6.35 (1 / 4)					
	Gas tube	mm (in.)	12.7 (1 / 2)					
Drain connection			OD26 mm					
Drain pump			Max. head 635 mm above drain connection					
Panel			Optional (CZ-KPY2)					
Remote controller			Optional (Wired / Wireless)					
Refrigerant tubing kit / Accessories			Optional / -					
Color (Approximate value)			Munsell 2.5GY 9.0 / 0.5, RAL 9001-GL (resemblant color)					
DIMENSIONS & WEIGHT			Indoor unit (including panel)			Package		
Unit dimensions	Height	mm (in.)	313 (12-21 / 64)			290 (11-27 / 64)	105 (4-9 / 64)	
	Width	mm (in.)	625 (24-39 / 64)			714 (28-7 / 64)	665 (26-3 / 16)	
	Depth	mm (in.)	625 (24-39 / 64)			630 (24-51 / 64)	678 (26-11 / 16)	
Net weight		kg (lbs.)	18.4 (40.6)			-	-	
Shipping weight		kg (lbs.)	-			19 (41.9)	3.5 (7.7)	
Shipping volume		m ³ (cu.ft)	-			0.13 (4.6)	0.047 (1.7)	

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Rated conditions

Cooling: Indoor air temperature 27°C DB / 19°C WB; Outdoor air temperature 35°C DB

Heating: Indoor air temperature 20°C DB; Outdoor air temperature 7°C DB / 6°C WB

3. 4-Way Cassette 60×60 Type (Y1 Type)

Unit specifications (D)

MODEL No.	Indoor Unit		S-45MY1E5					
POWER SOURCE			220 - 230 - 240 V, single-phase, 50/60 Hz					
PERFORMANCE			Cooling			Heating		
Capacity	kW		4.7			5.0		
	BTU / h		16,000			17,000		
Air circulation (Hi / Me / Lo)		m ³ / h	640 / 510 / 450					
Moisture removal (High)		Liters / h	1.5			-		
ELECTRICAL RATINGS								
Voltage rating	V		220	230	240	220	230	240
Available voltage range		V	198 - 264			198 - 264		
Running amperes		A	0.21	0.21	0.20	0.18	0.18	0.17
Power input		W	30	31	31	20	21	21
Power factor		%	65	64	65	51	51	51
Max. starting amperes		A	-	-	-	-	-	-
FEATURES								
Controls			Microprocessor					
Timer			ON / OFF Timer (Max. 72 hr)					
Fan speeds			3 and Automatic control					
Air filter			Washable, easy access, long life (2,500 hr)					
Refrigerant control			Electronic expansion valve					
Operation sound (Hi / Me / Lo)		dB-A	36 / 32 / 28					
Refrigerant tubing connections			Flare type					
Refrigerant tube diameter	Liquid tube	mm (in.)	6.35 (1 / 4)					
	Gas tube	mm (in.)	12.7 (1 / 2)					
Drain connection			OD26 mm					
Drain pump			Max. head 635 mm above drain connection					
Panel			Optional (CZ-KPY2)					
Remote controller			Optional (Wired / Wireless)					
Refrigerant tubing kit / Accessories			Optional / -					
Color (Approximate value)			Munsell 2.5GY 9.0 / 0.5, RAL 9001-GL (resemblant color)					
DIMENSIONS & WEIGHT			Indoor unit (including panel)			Package		
Unit dimensions	Height	mm (in.)	313 (12-21 / 64)			290 (11-27 / 64)	105 (4-9 / 64)	
	Width	mm (in.)	625 (24-39 / 64)			714 (28-7 / 64)	665 (26-3 / 16)	
	Depth	mm (in.)	625 (24-39 / 64)			630 (24-51 / 64)	678 (26-11 / 16)	
Net weight		kg (lbs.)	18.4 (40.6)			-		
Shipping weight		kg (lbs.)	-			19 (41.9)	3.5 (7.7)	
Shipping volume		m ³ (cu.ft)	-			0.13 (4.6)	0.047 (1.7)	

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Rated conditions

Cooling: Indoor air temperature 27°C DB / 19°C WB; Outdoor air temperature 35°C DB

Heating: Indoor air temperature 20°C DB; Outdoor air temperature 7°C DB / 6°C WB

3. 4-Way Cassette 60×60 Type (Y1 Type)

Unit specifications (E)

MODEL No.	Indoor Unit		S-56MY1E5					
POWER SOURCE			220 - 230 - 240 V, single-phase, 50/60 Hz					
PERFORMANCE			Cooling			Heating		
Capacity	kW		5.6			6.3		
	BTU / h		19,000			21,000		
Air circulation (Hi / Me / Lo)		m ³ / h	750 / 630 / 540					
Moisture removal (High)		Liters / h	1.9			-		
ELECTRICAL RATINGS								
Voltage rating		V	220	230	240	220	230	240
Available voltage range		V	198 - 264			198 - 264		
Running amperes		A	0.29	0.29	0.28	0.26	0.26	0.25
Power input		W	37	38	38	29	29	29
Power factor		%	58	57	57	51	48	48
Max. starting amperes		A	-	-	-	-	-	-
FEATURES								
Controls			Microprocessor					
Timer			ON / OFF Timer (Max. 72 hr)					
Fan speeds			3 and Automatic control					
Air filter			Washable, easy access, long life (2,500 hr)					
Refrigerant control			Electronic expansion valve					
Operation sound (Hi / Me / Lo)		dB-A	41 / 37 / 33					
Refrigerant tubing connections			Flare type					
Refrigerant tube diameter	Liquid tube	mm (in.)	6.35 (1 / 4)					
	Gas tube	mm (in.)	12.7 (1 / 2)					
Drain connection			OD26 mm					
Drain pump			Max. head 635 mm above drain connection					
Panel			Optional (CZ-KPY2)					
Remote controller			Optional (Wired / Wireless)					
Refrigerant tubing kit / Accessories			Optional / -					
Color (Approximate value)			Munsell 2.5GY 9.0 / 0.5, RAL 9001-GL (resemblant color)					
DIMENSIONS & WEIGHT			Indoor unit (including panel)			Package		
Unit dimensions	Height	mm (in.)	313 (12-21 / 64)			290 (11-27 / 64)	105 (4-9 / 64)	
	Width	mm (in.)	625 (24-39 / 64)			714 (28-7 / 64)	665 (26-3 / 16)	
	Depth	mm (in.)	625 (24-39 / 64)			630 (24-51 / 64)	678 (26-11 / 16)	
Net weight		kg (lbs.)	18.4 (40.6)			-	-	
Shipping weight		kg (lbs.)	-			19 (41.9)	3.5 (7.7)	
Shipping volume		m ³ (cu.ft)	-			0.13 (4.6)	0.047 (1.7)	

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Rated conditions

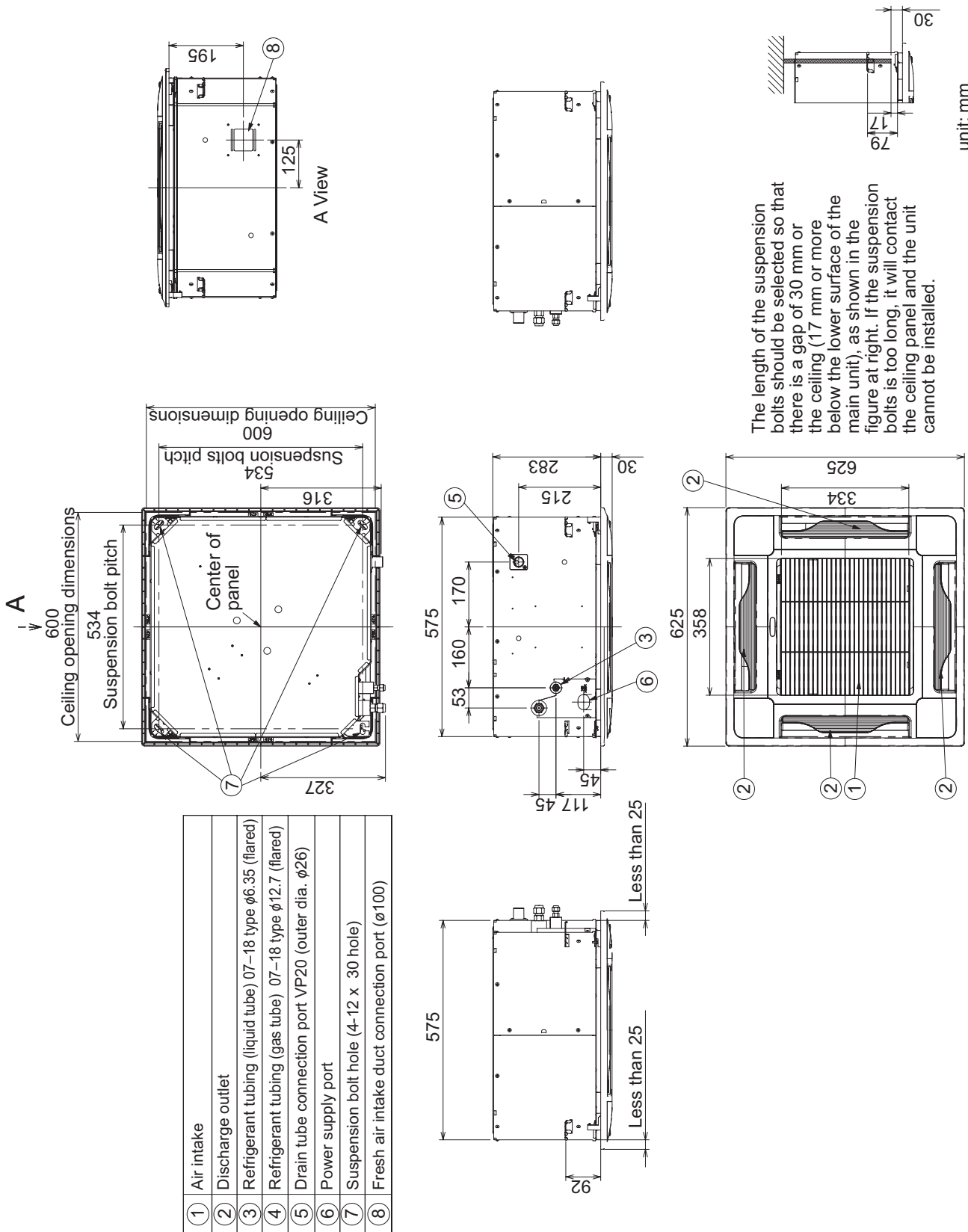
Cooling: Indoor air temperature 27°C DB / 19°C WB; Outdoor air temperature 35°C DB

Heating: Indoor air temperature 20°C DB; Outdoor air temperature 7°C DB / 6°C WB

3. 4-Way Cassette 60x60 Type (Y1 Type)

3-3. Dimensional Data

Indoor unit: S-22MY1E5 / 28MY1E5 / 36MY1E5 / 45MY1E5 / 56MY1E5



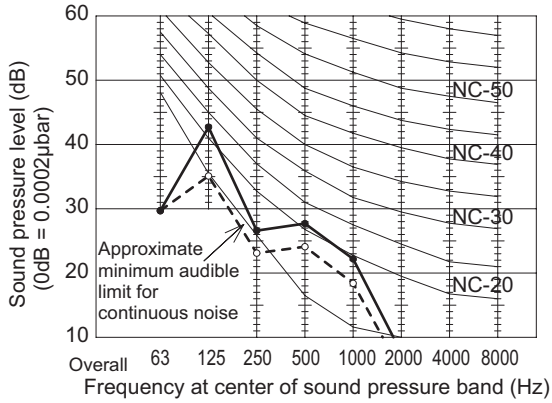
unit: mm

3. 4-Way Cassette 60×60 Type (Y1 Type)

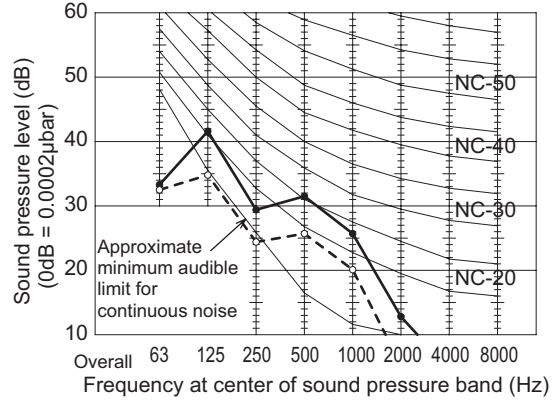
3-4. Noise Criterion Curves

Both 50Hz and 60Hz
 —●— Strong
 -○- Weak

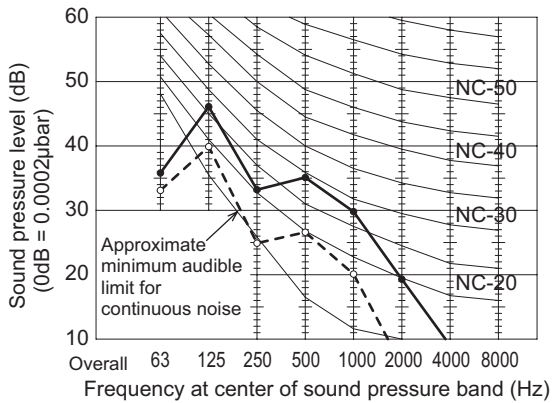
MODEL : S-22MY1E5 / 28MY1E5
 SOUND LEVEL : STRONG 30 dB(A)
 WEAK 25 dB(A)
 CONDITION : 1.5 m directly below unit



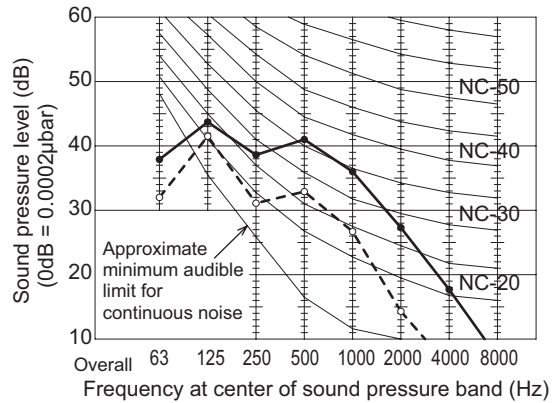
MODEL : S-36MY1E5
 SOUND LEVEL : STRONG 32 dB(A)
 WEAK 26 dB(A)
 CONDITION : 1.5 m directly below unit



MODEL : S-45MY1E5
 SOUND LEVEL : STRONG 36 dB(A)
 WEAK 28 dB(A)
 CONDITION : 1.5 m directly below unit



MODEL : S-56MY1E5
 SOUND LEVEL : STRONG 41 dB(A)
 WEAK 33 dB(A)
 CONDITION : 1.5 m directly below unit

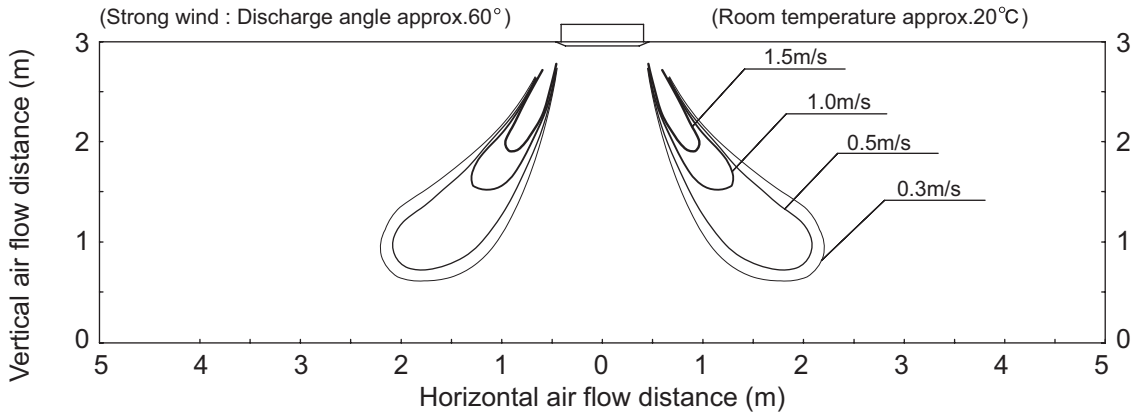


3. 4-Way Cassette 60×60 Type (Y1 Type)

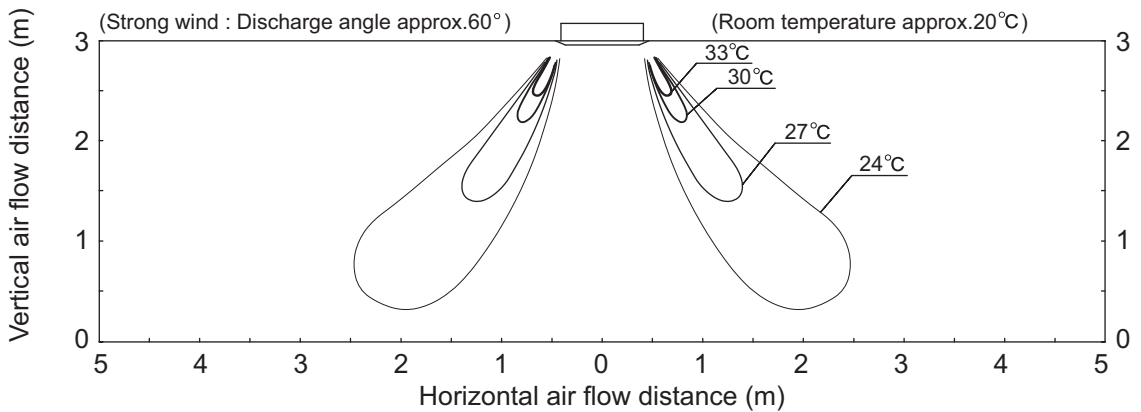
3-5. Air Flow Distance / Temperature Chart

S-22MY1E5 / 28MY1E5 / 36MY1E5

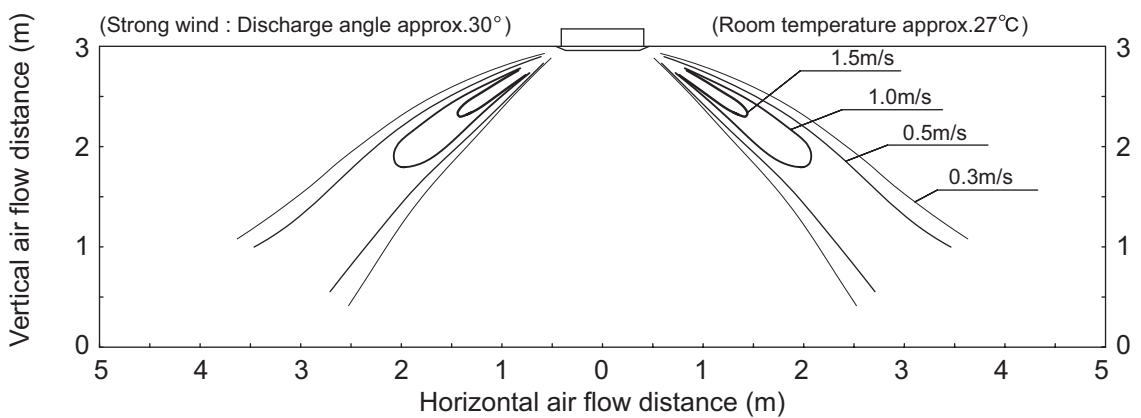
Heating : Distribution of wind velocity



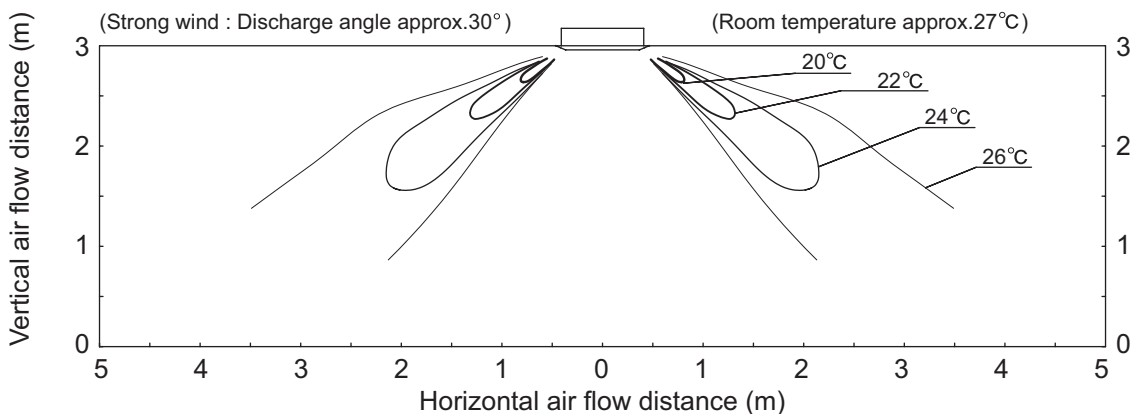
Heating : Distribution of temperature



Cooling : Distribution of wind velocity



Cooling : Distribution of temperature

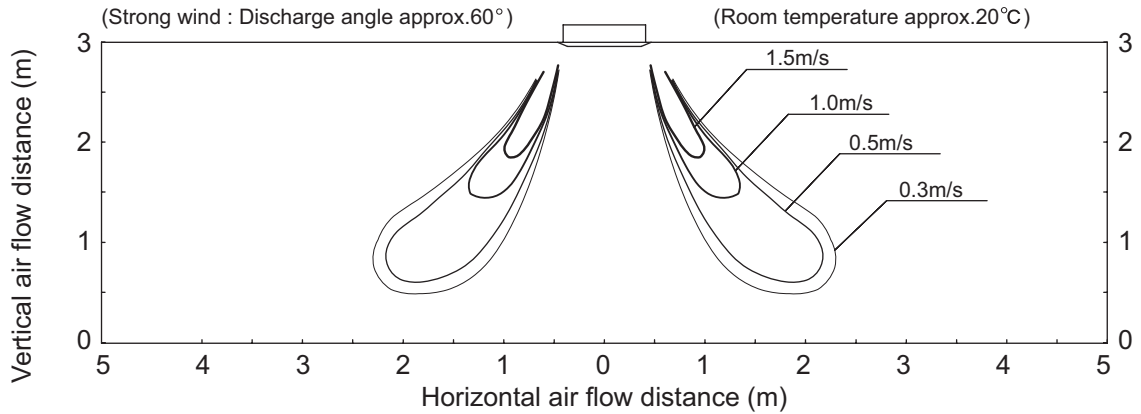


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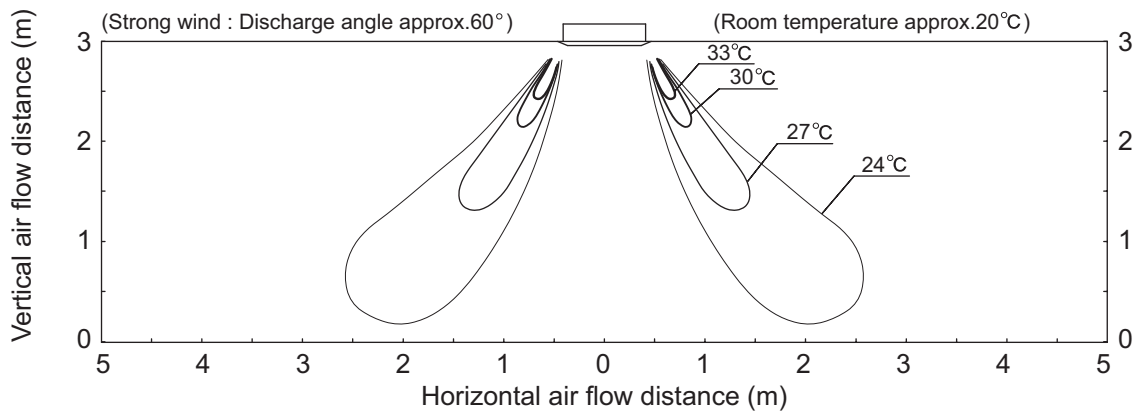
3. 4-Way Cassette 60×60 Type (Y1 Type)

S-45MY1E5 / 56MY1E5

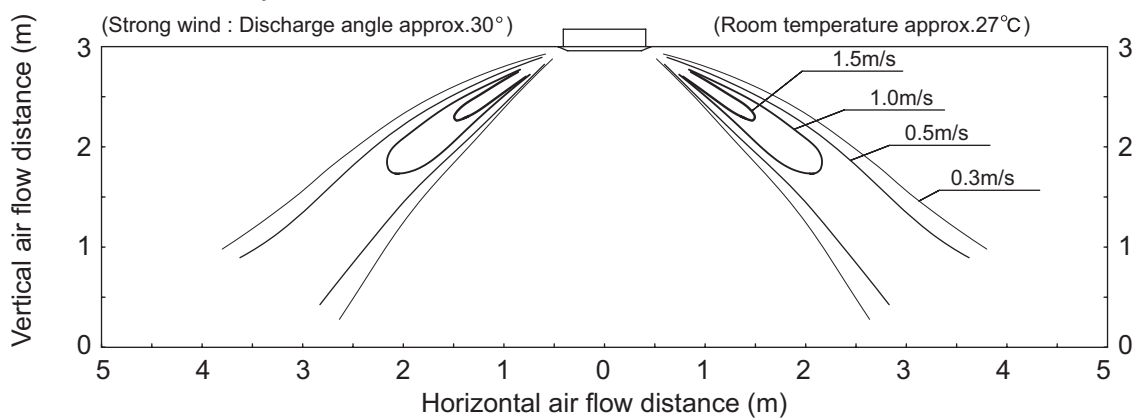
Heating : Distribution of wind velocity



Heating : Distribution of temperature



Cooling : Distribution of wind velocity



Cooling : Distribution of temperature

