

R1 TYPE CONCEALED FLOOR STANDING



R1 Type

At just 229 mm deep, the R1 unit can be easily concealed in perimeter areas to provide powerful and effective air conditioning.

- Chassis unit for discrete installation
- Complete with removable filters
- Pipes can be connected to either side of the unit from the bottom or rear



OPTIONAL CONTROLLER
Timer remote controller
CZ-RTC2

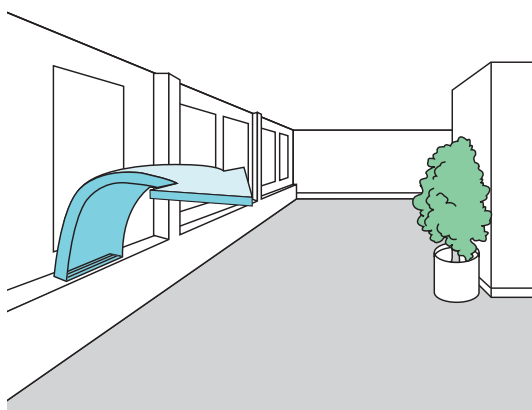


OPTIONAL CONTROLLER
Wireless remote controller
CZ-RWSC2



OPTIONAL CONTROLLER
Simplified remote controller
CZ-RE2C2

Perimeter air conditioning with high interior quality



MODEL NAME		R1 TYPE	S-22MR1E5	S-28MR1E5	S-36MR1E5	S-45MR1E5	S-56MR1E5	S-71MR1E5
		Power source		230 V / 1 phase / 50 Hz				
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1	
Cooling power input	W	56	56	85	126	126	160	
Cooling operating current	A	0.25	0.25	0.38	0.56	0.56	0.72	
Heating capacity	kW	2.5	3.2	4.2	5.0	6.3	8.0	
Heating power input	W	40	40	70	91	91	120	
Heating operating current	A	0.18	0.18	0.31	0.41	0.41	0.54	
Fan	Type	Sirocco fan						
	Air flow rate (H/M/L)	m ³ /h	420 / 360 / 300	420 / 360 / 300	540 / 420 / 360	720 / 540 / 480	900 / 780 / 660	1,020 / 840 / 720
Sound pressure level (L/M/H)	dB(A)	28 / 30 / 33		29 / 35 / 39		31 / 36 / 39		35 / 38 / 41
Dimensions P1 Type	H x W x D	mm	615 x 1,065 x 230	615 x 1,065 x 230	615 x 1,065 x 230	615 x 1,380 x 230	615 x 1,380 x 230	615 x 1,380 x 230
Dimensions R1 Type	H x W x D	mm	616 x 904 x 229	616 x 904 x 229	616 x 904 x 229	616 x 1,219 x 229	616 x 1,219 x 229	616 x 1,219 x 229
Pipe connections	Liquid	inches (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)
	Gas	inches (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.88)
	Drain piping		VP-20	VP-20	VP-20	VP-20	VP-20	VP-20
Net weight R1 Type	Kg	21	21	21	28	28	28	

Energy saving	Environmentally friendly refrigerant	Easy maintenance	For more comfort	Perfect humidity control	Practical operation	Easy control
INVERTER+	R410A	SELF-DIAGNOSING	AUTOMATIC FAN	MILD DRY	AUTOMATIC RESTART	CONNECTIVITY

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Cooling Outdoor 7 °C DB / 6 °C WB.
DB: Dry Bulb; WB: Wet Bulb

10. Concealed Floor Standing Type (R1 Type)

10-1. Specifications

Unit specifications (A)

MODEL No.		Indoor Unit		S-22MR1E5				
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	420 / 360 / 300					
Moisture removal (High)		Liters / h	1.0			-		
ELECTRICAL RATINGS								
Voltage rating		V	220	230	240	220	230	240
Available voltage range		V	198 - 264			198 - 264		
Running amperes		A	0.24	0.25	0.26	0.17	0.18	0.19
Power input		W	51	56	61	36	40	45
Power factor		%	97	97	98	96	97	99
Max. starting amperes		A	1	1	1	1	1	1
FEATURES								
Controls		Microprocessor						
Timer		ON / OFF Timer (Max. 72 hr)						
Fan speeds		3 and Automatic control						
Air filter		Washable, easy access						
Refrigerant control		Electronic expansion valve						
Operation sound (Hi / Me / Lo)		dB-A	33 / 30 / 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		20 A, OD26 mm						
Remote controller		Optional (Wired / Wireless)						
Refrigerant tubing kit / Accessories		Optional / -						
Color (Approximate value)		Munsell 10Y 9.3 / 0.4, RAL 9010-GL						
DIMENSIONS & WEIGHT				Unit dimensions			Package dimensions	
Unit dimensions	Height	mm (in.)	616 (24-1 / 4)			679 (26-23 / 32)		
	Width	mm (in.)	904 (35-19 / 32)			976 (38-7 / 16)		
	Depth	mm (in.)	229 (9-1 / 32)			312 (12-9 / 32)		
Net weight		kg (lbs.)	21 (46)					
Shipping weight		kg (lbs.)	23 (51)					
Shipping volume		m ³ (cu.ft)	0.207 (7.3)					

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

10. Concealed Floor Standing Type (R1 Type)

Unit specifications (B)

MODEL No.		Indoor Unit		S-28MR1E5				
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	420 / 360 / 300					
Moisture removal (High)		Liters / h	1.3			-		
ELECTRICAL RATINGS								
Voltage rating		V	220	230	240	220	230	240
Available voltage range		V	198 - 264			198 - 264		
Running amperes		A	0.24	0.25	0.26	0.17	0.18	0.19
Power input		W	51	56	61	36	40	45
Power factor		%	97	97	98	96	97	99
Max. starting amperes		A	1	1	1	1	1	1
FEATURES								
Controls		Microprocessor						
Timer		ON / OFF Timer (Max. 72 hr)						
Fan speeds		3 and Automatic control						
Air filter		Washable, easy access						
Refrigerant control		Electronic expansion valve						
Operation sound (Hi / Me / Lo)		dB-A	33 / 30 / 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		20 A, OD26 mm						
Remote controller		Optional (Wired / Wireless)						
Refrigerant tubing kit / Accessories		Optional / -						
Color (Approximate value)		Munsell 10Y 9.3 / 0.4, RAL 9010-GL						
DIMENSIONS & WEIGHT				Unit dimensions			Package dimensions	
Unit dimensions	Height	mm (in.)	616 (24-1 / 4)			679 (26-23 / 32)		
	Width	mm (in.)	904 (35-19 / 32)			976 (38-7 / 16)		
	Depth	mm (in.)	229 (9-1 / 32)			312 (12-9 / 32)		
Net weight		kg (lbs.)	21 (46)					
Shipping weight		kg (lbs.)	23 (51)					
Shipping volume		m ³ (cu.ft)	0.207 (7.3)					

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

10. Concealed Floor Standing Type (R1 Type)

Unit specifications (C)

MODEL No.	Indoor Unit		S-36MR1E5					
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 / 420 / 360					
Moisture removal (High)		Liters / h	1.7			-		
ELECTRICAL RATINGS								
Voltage rating	V		220	230	240	220	230	240
Available voltage range		V	198 - 264			198 - 264		
Running amperes		A	0.37	0.38	0.39	0.30	0.31	0.32
Power input		W	79	85	91	64	70	76
Power factor		%	97	97	97	97	98	99
Max. starting amperes		A	1	1	1	1	1	1
FEATURES								
Controls		Microprocessor						
Timer		ON / OFF Timer (Max. 72 hr)						
Fan speeds		3 and Automatic control						
Air filter		Washable, easy access						
Refrigerant control		Electronic expansion valve						
Operation sound (Hi / Me / Lo)		dB-A	39 / 35 / 29					
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		20 A, OD26 mm						
Remote controller		Optional (Wired / Wireless)						
Refrigerant tubing kit / Accessories		Optional / -						
Color (Approximate value)		Munsell 10Y 9.3 / 0.4, RAL 9010-GL						
DIMENSIONS & WEIGHT			Unit dimensions			Package dimensions		
Unit dimensions	Height	mm (in.)	616 (24-1 / 4)			679 (26-23 / 32)		
	Width	mm (in.)	904 (35-19 / 32)			976 (38-7 / 16)		
	Depth	mm (in.)	229 (9-1 / 32)			312 (12-9 / 32)		
Net weight		kg (lbs.)	21 (46)					
Shipping weight		kg (lbs.)	23 (51)					
Shipping volume		m ³ (cu.ft)	0.207 (7.3)					

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

10. Concealed Floor Standing Type (R1 Type)

Unit specifications (D)

MODEL No.	Indoor Unit		S-45MR1E5					
POWER SOURCE			220 - 230 - 240 V, single-phase, 50/60 Hz					
PERFORMANCE			Cooling			Heating		
Capacity	kW		4.5			5.0		
	BTU / h		15,000			17,000		
Air circulation (Hi / Me / Lo)		m ³ / h	720 / 540 / 480					
Moisture removal (High)		Liters / h	2.5			-		
ELECTRICAL RATINGS								
Voltage rating	V		220	230	240	220	230	240
Available voltage range		V	198 - 264			198 - 264		
Running amperes		A	0.54	0.56	0.58	0.37	0.41	0.43
Power input		W	116	126	136	79	91	101
Power factor		%	98	98	98	97	97	98
Max. starting amperes		A	1	1	1	1	1	1
FEATURES								
Controls			Microprocessor					
Timer			ON / OFF Timer (Max. 72 hr)					
Fan speeds			3 and Automatic control					
Air filter			Washable, easy access					
Refrigerant control			Electronic expansion valve					
Operation sound (Hi / Me / Lo)		dB-A	38 / 35 / 31					
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			20 A, OD26 mm					
Remote controller			Optional (Wired / Wireless)					
Refrigerant tubing kit / Accessories			Optional / -					
Color (Approximate value)			Munsell 10Y 9.3 / 0.4, RAL 9010-GL					
DIMENSIONS & WEIGHT			Unit dimensions			Package dimensions		
Unit dimensions	Height	mm (in.)	616 (24-1 / 4)			679 (26-23 / 32)		
	Width	mm (in.)	1219 (48)			1291 (50-13 / 16)		
	Depth	mm (in.)	229 (9-1 / 32)			312 (12-9 / 32)		
Net weight		kg (lbs.)	28 (62)					
Shipping weight		kg (lbs.)	31 (68)					
Shipping volume		m ³ (cu.ft)	0.273 (9.6)					

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

10. Concealed Floor Standing Type (R1 Type)

Unit specifications (E)

MODEL No.	Indoor Unit		S-56MR1E5					
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	900 / 780 / 660					
Moisture removal (High)		Liters / h	2.5			-		
ELECTRICAL RATINGS								
Voltage rating		V	220	230	240	220	230	240
Available voltage range		V	198 - 264			198 - 264		
Running amperes		A	0.54	0.56	0.58	0.37	0.41	0.43
Power input		W	116	126	136	79	91	101
Power factor		%	98	98	98	97	97	98
Max. starting amperes		A	1	1	1	1	1	1
FEATURES								
Controls		Microprocessor						
Timer		ON / OFF Timer (Max. 72 hr)						
Fan speeds		3 and Automatic control						
Air filter		Washable, easy access						
Refrigerant control		Electronic expansion valve						
Operation sound (Hi / Me / Lo)		dB-A	39 / 36 / 31					
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		20 A, OD26 mm						
Remote controller		Optional (Wired / Wireless)						
Refrigerant tubing kit / Accessories		Optional / -						
Color (Approximate value)		Munsell 10Y 9.3 / 0.4, RAL 9010-GL						
DIMENSIONS & WEIGHT			Unit dimensions			Package dimensions		
Unit dimensions	Height	mm (in.)	616 (24-1 / 4)			679 (26-23 / 32)		
	Width	mm (in.)	1219 (48)			1291 (50-13 / 16)		
	Depth	mm (in.)	229 (9-1 / 32)			312 (12-9 / 32)		
Net weight		kg (lbs.)	28 (62)					
Shipping weight		kg (lbs.)	31 (68)					
Shipping volume		m ³ (cu.ft)	0.273 (9.6)					

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

10. Concealed Floor Standing Type (R1 Type)

Unit specifications (F)

MODEL No.	Indoor Unit		S-71MR1E5					
POWER SOURCE			220 - 230 - 240 V, single-phase, 50/60 Hz					
PERFORMANCE			Cooling			Heating		
Capacity	kW		7.1			8.0		
	BTU / h		24,000			27,000		
Air circulation (Hi / Me / Lo)		m ³ / h	1020 / 840 / 720					
Moisture removal (High)		Liters / h	3.5			-		
ELECTRICAL RATINGS								
Voltage rating	V		220	230	240	220	230	240
Available voltage range		V	198 - 264			198 - 264		
Running amperes		A	0.70	0.72	0.73	0.52	0.54	0.56
Power input		W	150	160	170	110	120	130
Power factor		%	97	97	97	96	97	97
Max. starting amperes		A	1	1	1	1	1	1
FEATURES								
Controls			Microprocessor					
Timer			ON / OFF Timer (Max. 72 hr)					
Fan speeds			3 and Automatic control					
Air filter			Washable, easy access					
Refrigerant control			Electronic expansion valve					
Operation sound (Hi / Me / Lo)		dB-A	41 / 38 / 35					
Refrigerant tubing connections			Flare type					
Refrigerant tube diameter	Liquid tube	mm (in.)	9.52 (3 / 8)					
	Gas tube	mm (in.)	15.88 (5 / 8)					
Drain connection			20 A, OD26 mm					
Remote controller			Optional (Wired / Wireless)					
Refrigerant tubing kit / Accessories			Optional / -					
Color (Approximate value)			Munsell 10Y 9.3 / 0.4, RAL 9010-GL					
DIMENSIONS & WEIGHT			Unit dimensions			Package dimensions		
Unit dimensions	Height	mm (in.)	616 (24-1 / 4)			679 (26-23 / 32)		
	Width	mm (in.)	1219 (48)			1291 (50-13 / 16)		
	Depth	mm (in.)	229 (9-1 / 32)			312 (12-9 / 32)		
Net weight		kg (lbs.)	28 (62)					
Shipping weight		kg (lbs.)	31 (68)					
Shipping volume		m ³ (cu.ft)	0.273 (9.6)					

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

10. Concealed Floor Standing Type (R1 Type)

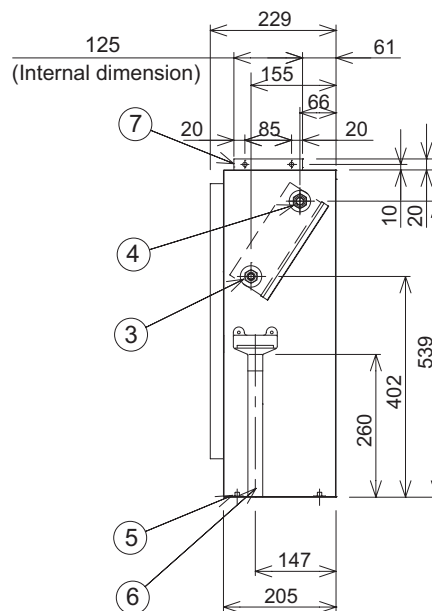
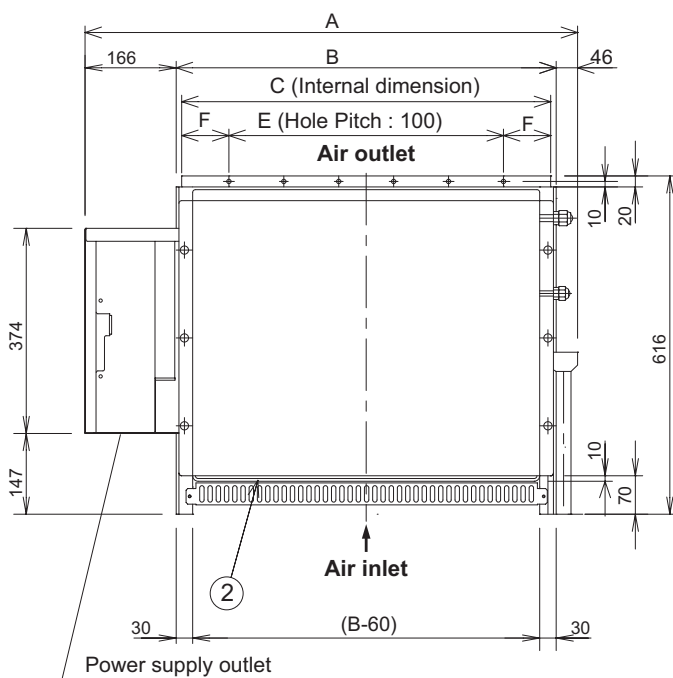
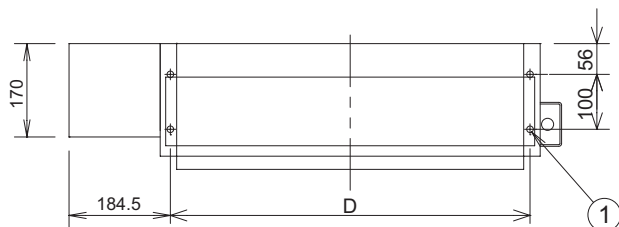
10-3. Dimensional Data

Indoor unit: S-22MR1E5 / 28MR1E5 / 36MR1E5 / 45MR1E5 / 56MR1E5 / 71MR1E5

unit: mm

Indoor unit	A	B	C	D	E	F	Liquid tube	Gas tube
S-22MR1E5 / 28MR1E5 / 36MR1E5	904	692	672	665	500	86	ø6.35	ø12.7
S-45MR1E5	1219	1007	1002	980	900	51		
S-56MR1E5							ø9.52	ø15.88
S-71MR1E5								

Unit: mm



- ① 4-ø12 hole (For fastening the indoor unit to the floor with screws.)
- ② Air filter
- ③ Refrigerant connection outlet (liquid tube)
- ④ Refrigerant connection outlet (gas tube)
- ⑤ Level adjusting bolt
- ⑥ Drain outlet (20 A)
- ⑦ Flange for the air-outlet duct

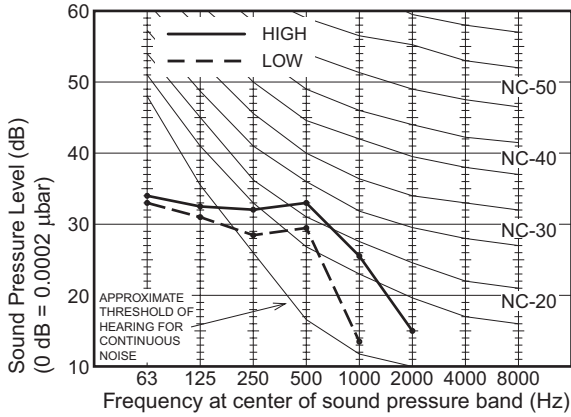
NOTE

Make an opening in the housing of the unit so that maintenance service can be performed on the electric component box, air filter, refrigerant tubing connection, and drain pipe.

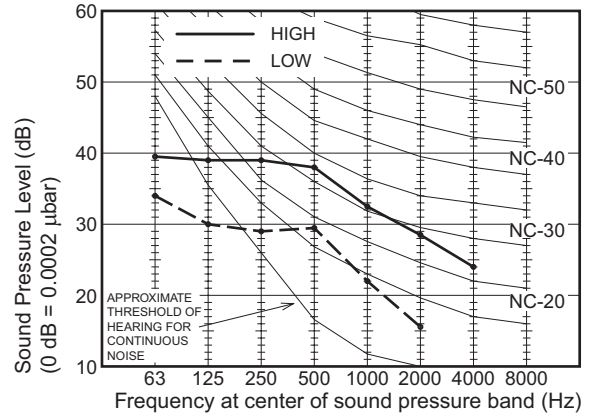
10. Concealed Floor Standing Type (R1 Type)

10-4. Noise Criterion Curves

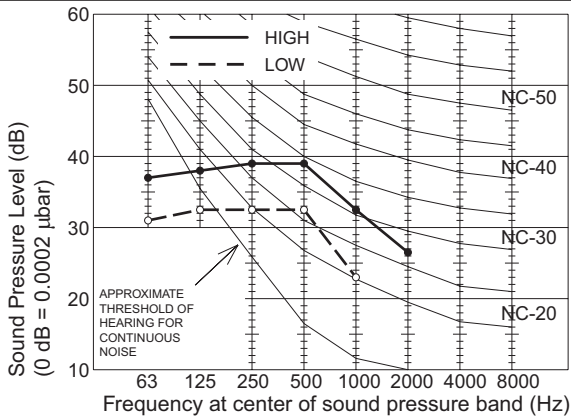
MODEL : S-22MR1E5/28MR1E5
 SOUND LEVEL : HIGH 33 dB(A), NC 27
 LOW 28 dB(A), NC 23
 CONDITION : In front of the unit 1 m, HEIGHT 1 m
 SOURCE : 220 - 230- 240 V, Single-phase, 50/60 Hz



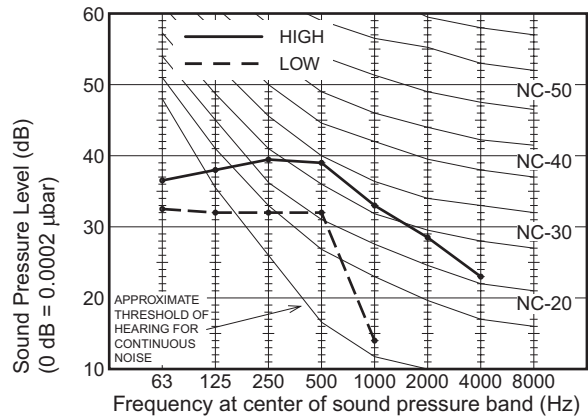
MODEL : S-36MR1E5
 SOUND LEVEL : HIGH 39 dB(A), NC 33
 LOW 29 dB(A), NC 23
 CONDITION : In front of the unit 1 m, HEIGHT 1 m
 SOURCE : 220 - 230- 240 V, Single-phase, 50/60 Hz



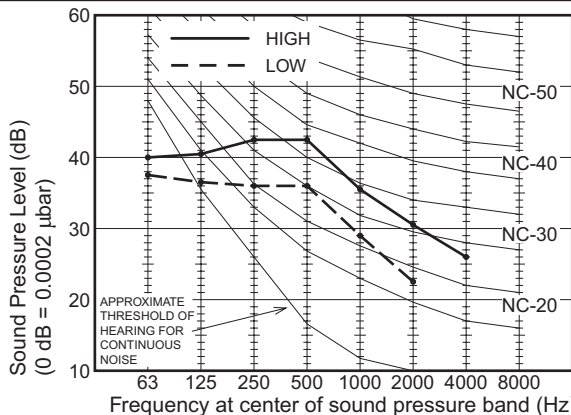
MODEL : S-45MR1E5
 SOUND LEVEL : HIGH 38 dB(A),
 LOW 31 dB(A),
 CONDITION : In front of the unit 1 m, HEIGHT 1 m
 SOURCE : 220 - 230- 240 V, Single-phase, 50/60 Hz



MODEL : S-56MR1E5
 SOUND LEVEL : HIGH 39 dB(A), NC 34
 LOW 31 dB(A), NC 26
 CONDITION : In front of the unit 1 m, HEIGHT 1 m
 SOURCE : 220 - 230- 240 V, Single-phase, 50/60 Hz



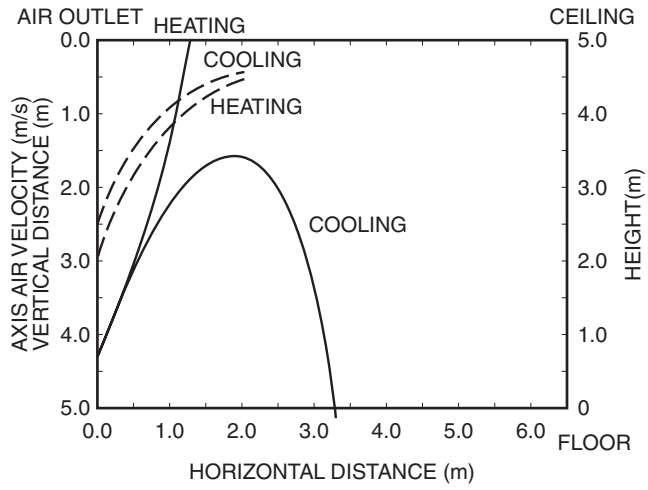
MODEL : S-71MR1E5
 SOUND LEVEL : HIGH 41 dB(A), NC 37
 LOW 35 dB(A), NC 30
 CONDITION : In front of the unit 1 m, HEIGHT 1 m
 SOURCE : 220 - 230- 240 V, Single-phase, 50/60 Hz



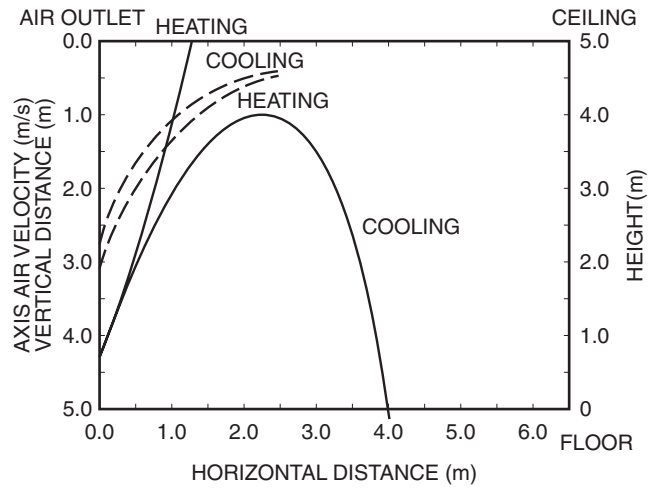
10. Concealed Floor Standing Type (R1 Type)

10-5. Air Flow Distance Chart

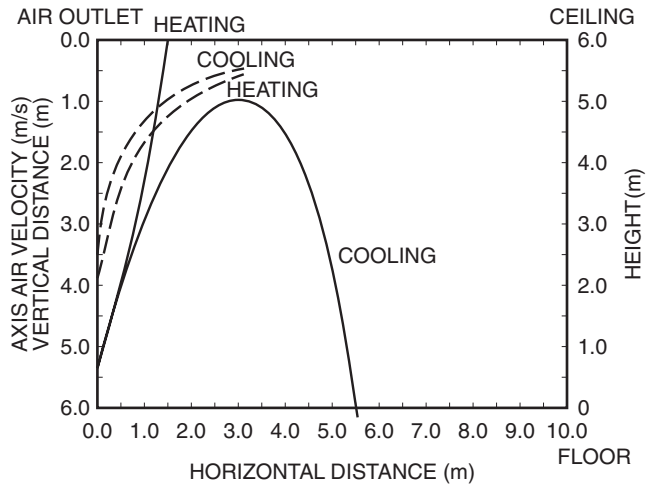
S-22MR1E5 / 28MR1E5



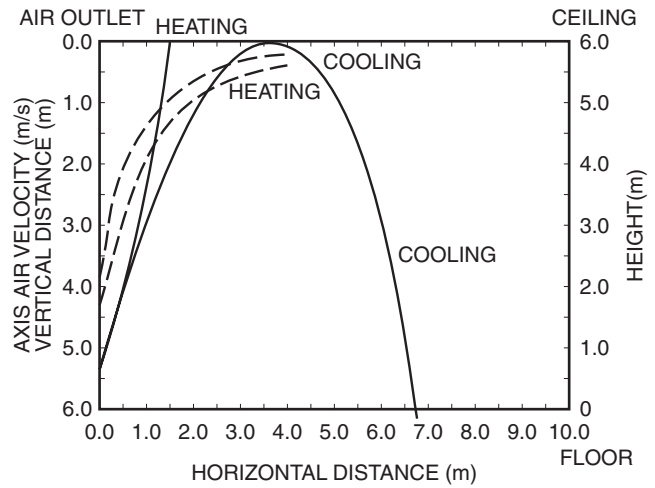
S-36MR1E5



S-45MR1E5 / 56MR1E5



S-71MR1E5



Air conditioner fan speed : Hi
 Room air temp. : 27°C DB in Cooling mode
 20°C DB in Heating mode

10. Concealed Floor Standing Type (R1 Type)

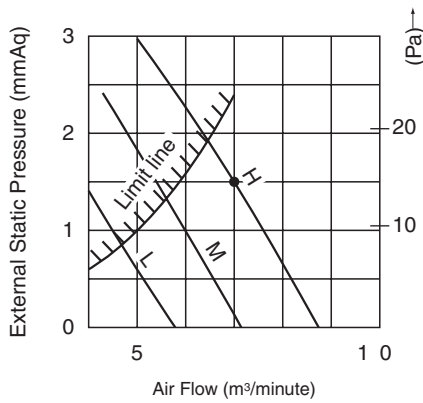
10-6. Indoor Fan Performance

How to Read the Diagram

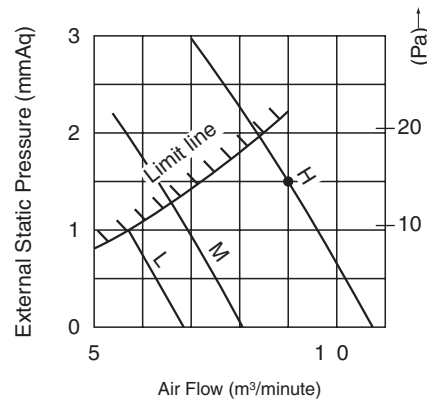
The vertical axis is the EXTERNAL STATIC PRESSURE (mmAq) while the horizontal axis represents the AIR FLOW (m³/minute). The characteristic curve for the “H”, “Med”, and “Lo” fan speed control.

The name plate values are shown based on the “H” air flow. Therefore in the case of the 71 type the flow is 17 m³/minute, while the EXTERNAL STATIC PRESSURE is 1.5 mmAq at “H” position. If the external static pressure is too great (due to long extension of duct, for example), the air flow volume may drop too low at each air outlet.

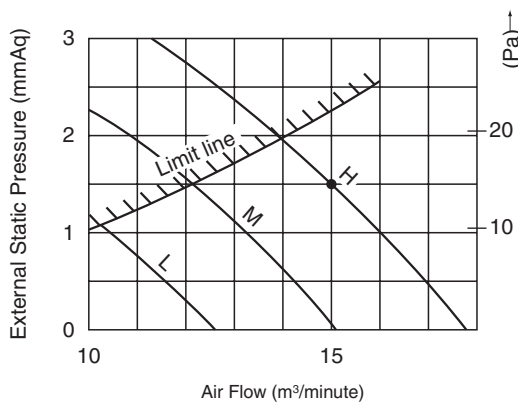
S-22MR1E5 / 28MR1E5



S-36MR1E5



S-45MR1E5 / 56MR1E5



S-71MR1E5

