

D1 TYPE 1-WAY CASSETTE

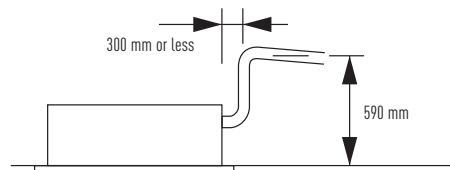


Designed for installation within the ceiling void, the D1 range of slimline 1 way blow cassettes feature powerful yet quiet fans for up to 4,2 m.

Technical focus

- Ultra-Slim
- Suitable for standard and high ceilings
- Built-in drain pump provides 590 mm lift
- Easy to install and maintain
- Hanging height can be easily adjusted
- Uses a DC fan motor to improve energy-efficiency

Drain height



PANEL
CZ-KP02



OPTIONAL CONTROLLER
Timer remote controller
CZ-RTC2



OPTIONAL CONTROLLER
Wireless remote controller
CZ-RWST2
CZ-RWSC2



OPTIONAL CONTROLLER
Simplified remote controller
CZ-RE2C2

MODEL NAME		S-28MD1E5	S-36MD1E5	S-45MD1E5	S-56MD1E5	S-73MD1E5	
Power source		230 V / 1 phase / 50 Hz					
Cooling capacity	kW	2.8	3.6	4.5	5.6	7.3	
Cooling power input	W	51	51	51	58	87	
Cooling operating current	A	0.39	0.39	0.39	0.46	0.7	
Heating capacity	kW	3.2	4.2	5.0	6.3	8.0	
Heating power input	W	40	40	40	48	76	
Heating operating current	A	0.35	0.35	0.35	0.41	0.65	
Fan	Type	Sirocco fan					
	Air flow rate (H/M/L)	m³/h	720 / 600 / 540	720 / 600 / 540	720 / 660 / 600	780 / 690 / 600	1,080 / 900 / 780
Sound pressure level (L/M/H)	dB(A)	33 / 34 / 36					
Dimensions	H x W x D	mm	200+(20) x 1,000 (1,230) x 710 (800)	200+(20) x 1,000 (1,230) x 710 (800)	200+(20) x 1,000 (1,230) x 710 (800)	200+(20) x 1,000 (1,230) x 710 (800)	200+(20) x 1,000 (1,230) x 710 (800)
	Pipe connections	Liquid	inches (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)
	Gas	inches (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.88)
	Drain piping		VP-25	VP-25	VP-25	VP-25	VP-25
Net weight	Kg	26.5					

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

Energy saving	Environmentally friendly refrigerant	Easy maintenance	For more comfort	Perfect humidity control	Further comfort	Practical operation	Comfort everywhere	Easy to install	Easy control
	R410A	SELF-DIAGNOSING	AUTOMATIC FAN	MILD DRY	AUTO-FLAP CONTROL	AUTOMATIC RESTART	AIR SWEEP	BUILT-IN DRAIN PUMP	CONNECTIVITY

11. 1-Way Casstte Type (D1 Type)

11-1. Specifications

Unit specifications (A)

MODEL No.		Indoor Unit		S-28MD1E5				
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	720 / 600 / 540					
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	0.40	0.39	0.39	0.36	0.35	0.35
Power input		W	50	51	52	39	40	42
Power factor		%	57	57	56	49	50	50
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 flow direction		Automatic (Remote control)						
Air filter		Washable, easy access, long life (2,500 hr)						
Refrigerant control		Electronic expansion valve						
Operation sound (Hi / Me / Lo)		dB-A	36 / 34 / 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		25 A, OD32 mm						
Drain pump		Max. head 700 mm above drain connection						
Panel		Optional (CZ-KPD2)						
Remote controller		Optional (Wired / Wireless)						
Refrigerant tubing kit / Accessories		Optional / Accessory cable						
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.)	220 (8-21 / 32)		235 (9-1 / 4)	130 (5-1 / 8)		
	Width	mm (in.)	1230 (48-7 / 16)		1270 (50)	1260 (49-39 / 64)		
	Depth	mm (in.)	800 (31-1 / 2)		790 (31-3 / 32)	875 (34-7 / 16)		
Net weight		kg (lbs.)	26.5 (58)		-	-		
Shipping weight		kg (lbs.)	-		23.5 (52)	7.5 (17)		
Shipping volume		m ³ (cu.ft)	-		0.236 (8.3)	0.143 (5.1)		

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

11. 1-Way Casstte Type (D1 Type)

Unit specifications (B)

MODEL No.		Indoor Unit		S-36MD1E5				
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	720 / 600 / 540					
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	0.40	0.39	0.39	0.36	0.35	0.35
Power input		W	50	51	52	39	40	42
Power factor		%	57	57	56	49	50	50
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 flow direction		Automatic (Remote control)						
Air filter		Washable, easy access, long life (2,500 hr)						
Refrigerant control		Electronic expansion valve						
Operation sound (Hi / Me / Lo)		dB-A	36 / 34 / 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		25 A, OD32 mm						
Drain pump		Max. head 700 mm above drain connection						
Panel		Optional (CZ-KPD2)						
Remote controller		Optional (Wired / Wireless)						
Refrigerant tubing kit / Accessories		Optional / Accessory cable						
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.)	220 (8-21 / 32)		235 (9-1 / 4)	130 (5-1 / 8)		
	Width	mm (in.)	1230 (48-7 / 16)		1270 (50)	1260 (49-39 / 64)		
	Depth	mm (in.)	800 (31-1 / 2)		790 (31-3 / 32)	875 (34-7 / 16)		
Net weight		kg (lbs.)	26.5 (58)		-	-		
Shipping weight		kg (lbs.)	-		23.5 (52)	7.5 (17)		
Shipping volume		m ³ (cu.ft)	-		0.236 (8.3)	0.143 (5.1)		

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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

11. 1-Way Casstte Type (D1 Type)

Unit specifications (C)

MODEL No.		Indoor Unit		S-45MD1E5					
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 / 660 / 600						
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	0.40	0.39	0.39	0.36	0.35	0.35	
Power input		W	50	51	52	39	40	42	
Power factor		%	57	57	56	49	50	50	
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 flow direction		Automatic (Remote control)							
Air filter		Washable, easy access, long life (2,500 hr)							
Refrigerant control		Electronic expansion valve							
Operation sound (Hi / Me / Lo)		dB-A	36 / 35 / 34						
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		25 A, OD32 mm							
Drain pump		Max. head 700 mm above drain connection							
Panel		Optional (CZ-KPD2)							
Remote controller		Optional (Wired / Wireless)							
Refrigerant tubing kit / Accessories		Optional / Accessory cable							
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.)	220 (8-21 / 32)		Body	235 (9-1 / 4)		Panel	130 (5-1 / 8)
	Width	mm (in.)	1230 (48-7 / 16)		1270 (50)				1260 (49-39 / 64)
	Depth	mm (in.)	800 (31-1 / 2)		790 (31-3 / 32)				875 (34-7 / 16)
Net weight		kg (lbs.)	26.5 (58)		-				
Shipping weight		kg (lbs.)	-		23.5 (52)		7.5 (17)		
Shipping volume		m ³ (cu.ft)	-		0.236 (8.3)		0.143 (5.1)		

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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

11. 1-Way Casstte Type (D1 Type)

Unit specifications (D)

MODEL No.		Indoor Unit		S-56MD1E5					
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	780 / 690 / 600						
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	0.46	0.46	0.46	0.42	0.41	0.41	
Power input		W	58	60	61	46	48	49	
Power factor		%	57	57	55	50	51	50	
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 flow direction		Automatic (Remote control)							
Air filter		Washable, easy access, long life (2,500 hr)							
Refrigerant control		Electronic expansion valve							
Operation sound (Hi / Me / Lo)		dB-A	38 / 36 / 34						
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		25 A, OD32 mm							
Drain pump		Max. head 700 mm above drain connection							
Panel		Optional (CZ-KPD2)							
Remote controller		Optional (Wired / Wireless)							
Refrigerant tubing kit / Accessories		Optional / Accessory cable							
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.)	220 (8-21 / 32)		Body	235 (9-1 / 4)		Panel	130 (5-1 / 8)
	Width	mm (in.)	1230 (48-7 / 16)		1270 (50)		1260 (49-39 / 64)		
	Depth	mm (in.)	800 (31-1 / 2)		790 (31-3 / 32)		875 (34-7 / 16)		
Net weight		kg (lbs.)	26.5 (58)		-		-		
Shipping weight		kg (lbs.)	-		23.5 (52)		7.5 (17)		
Shipping volume		m ³ (cu.ft)	-		0.236 (8.3)		0.143 (5.1)		

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

11. 1-Way Casstte Type (D1 Type)

Unit specifications (E)

MODEL No.		Indoor Unit		S-73MD1E5				
POWER SOURCE				220 - 230 - 240 V, single-phase, 50/60 Hz				
PERFORMANCE				Cooling			Heating	
Capacity	kW		7.3			8.0		
	BTU / h		25,000			27,000		
Air circulation (Hi / Me / Lo)		m ³ / h	1,080 / 900 / 780					
Moisture removal (High)		Liters / h	3.3			-		
ELECTRICAL RATINGS								
Voltage rating		V	220	230	240	220	230	240
Available voltage range		V	198 - 264			198 - 264		
Running amperes		A	0.71	0.70	0.69	0.66	0.65	0.63
Power input		W	86	87	89	75	76	77
Power factor		%	55	54	54	52	51	51
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 flow direction		Automatic (Remote control)						
Air filter		Washable, easy access, long life (2,500 hr)						
Refrigerant control		Electronic expansion valve						
Operation sound (Hi / Me / Lo)		dB-A	45 / 40 / 36					
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		25 A, OD32 mm						
Drain pump		Max. head 700 mm above drain connection						
Panel		Optional (CZ-KPD2)						
Remote controller		Optional (Wired / Wireless)						
Refrigerant tubing kit / Accessories		Optional / Accessory cable						
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.)	220 (8-21 / 32)		235 (9-1 / 4)	130 (5-1 / 8)	
		Width	mm (in.)	1230 (48-7 / 16)		1270 (50)	1260 (49-39 / 64)	
		Depth	mm (in.)	800 (31-1 / 2)		790 (31-3 / 32)	875 (34-7 / 16)	
Net weight		kg (lbs.)	27.5 (61)		-	-		
Shipping weight		kg (lbs.)	-		24.5 (54)	7.5 (17)		
Shipping volume		m ³ (cu.ft)	-		0.236 (8.3)	0.143 (5.1)		

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Rated conditions

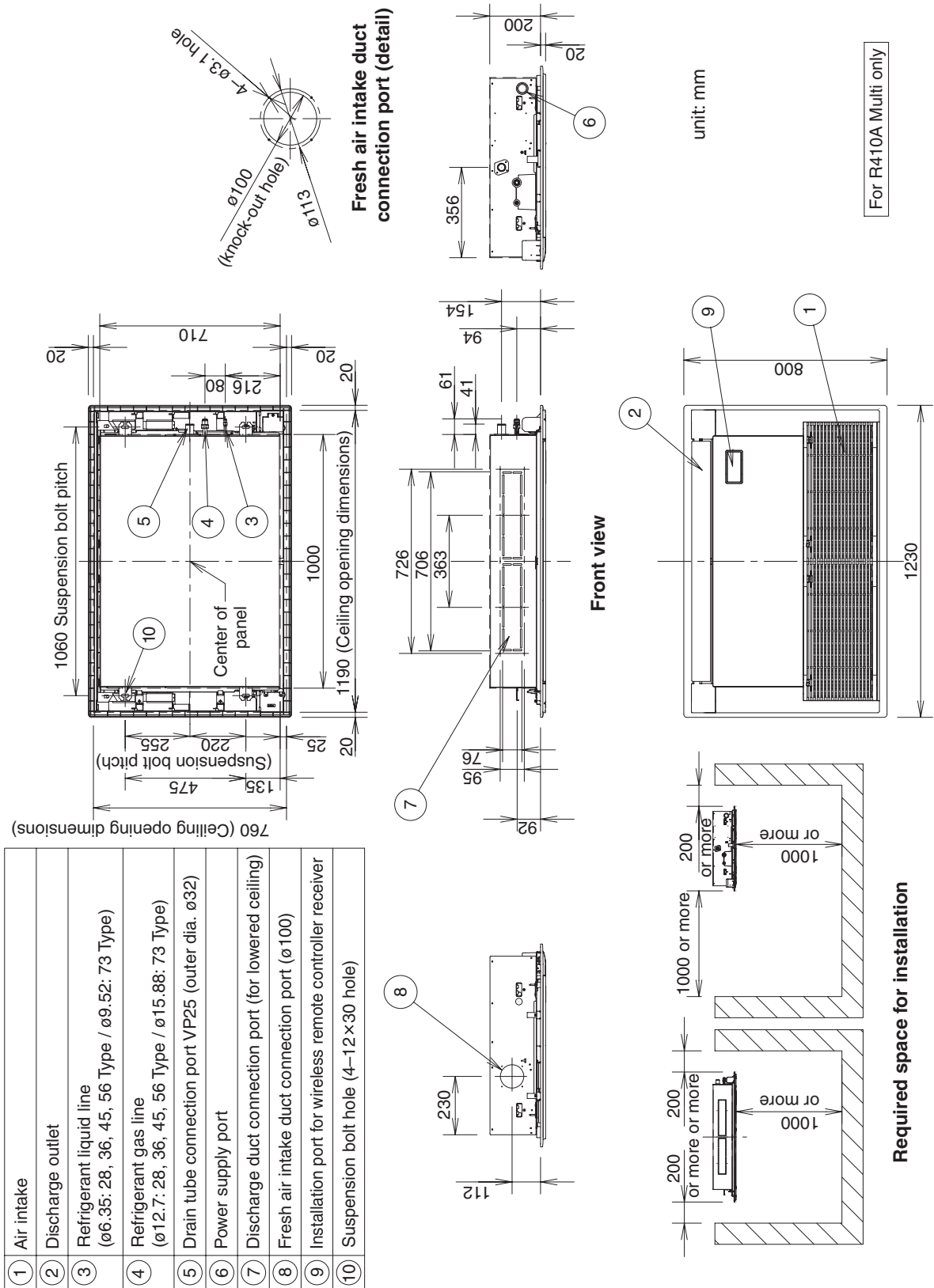
Cooling: Indoor air temperature 27°C DB / 19°C WB; Outdoor air temperature 35°C DB

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

11. 1-Way Casstte Type (D1 Type)

11-3. Dimensional Data

Indoor unit: S-28MD1E5 / 36MD1E5 / 45MD1E5 / 56MD1E5 / 73MD1E5



①	Air intake
②	Discharge outlet
③	Refrigerant liquid line ($\phi 6.35$: 28, 36, 45, 56 Type / $\phi 9.52$: 73 Type)
④	Refrigerant gas line ($\phi 12.7$: 28, 36, 45, 56 Type / $\phi 15.88$: 73 Type)
⑤	Drain tube connection port VP25 (outer dia. $\phi 32$)
⑥	Power supply port
⑦	Discharge duct connection port (for lowered ceiling)
⑧	Fresh air intake duct connection port ($\phi 100$)
⑨	Installation port for wireless remote controller receiver
⑩	Suspension bolt hole (4-12x30 hole)

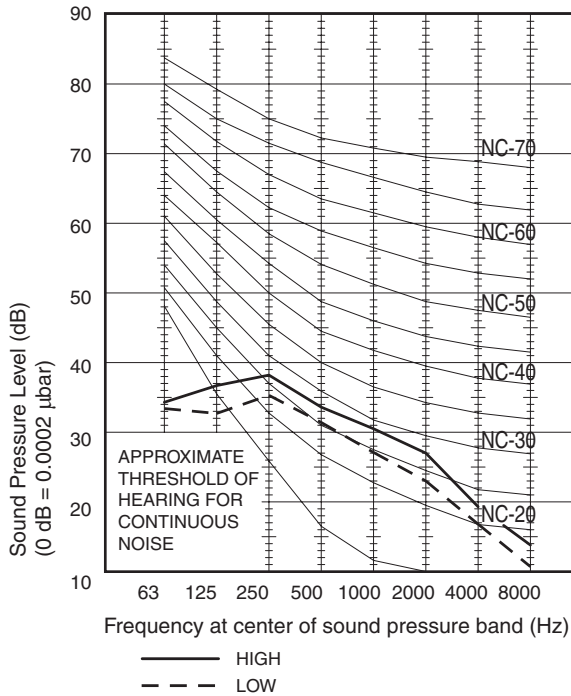
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For R410A Multi only

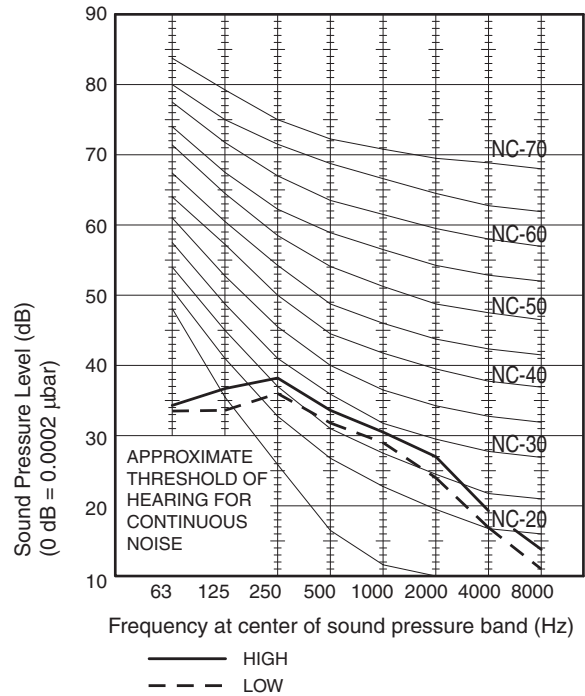
11. 1-Way Casstte Type (D1 Type)

11-4. Noise Criterion Curves

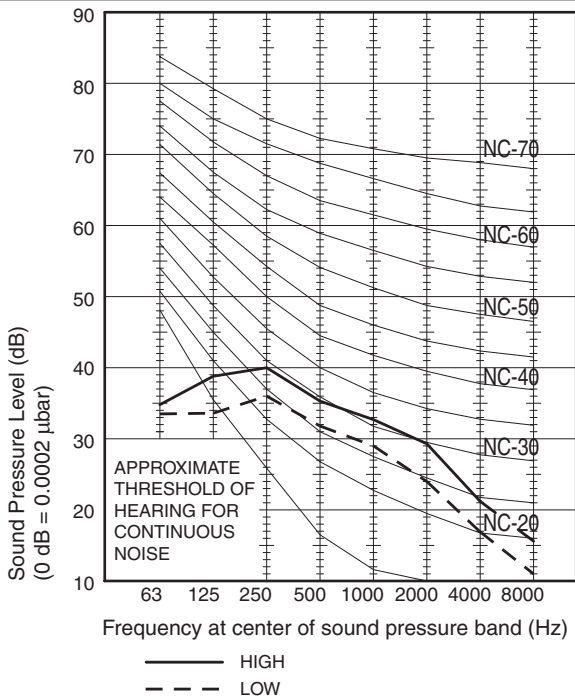
MODEL : S-28MD1E5
 -36MD1E5
 SOUND LEVEL : HIGH 36 dB(A), NC 29 / LOW 33 dB(A), NC 25
 CONDITION : Under the unit 1.5 m
 SOURCE : 220 - 230 - 240 V, Single-phase, 50/60 Hz



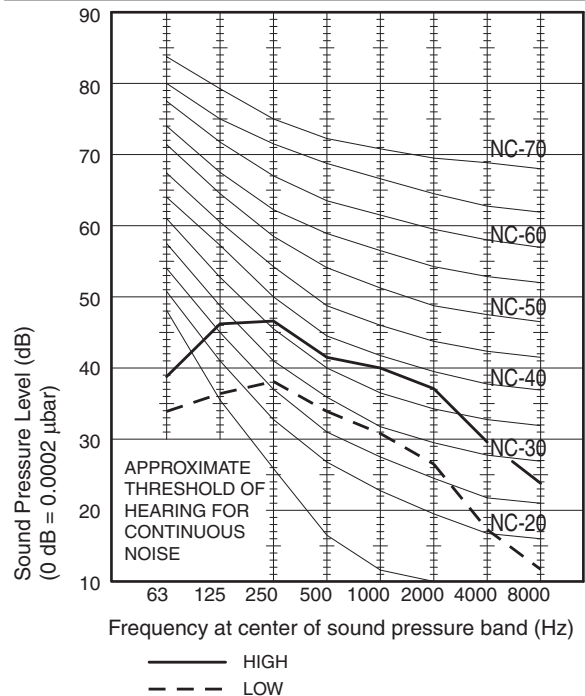
MODEL : S-45MD1E5
 SOUND LEVEL : HIGH 36 dB(A), NC 29 / LOW 34 dB(A), NC 27
 CONDITION : Under the unit 1.5 m
 SOURCE : 220 - 230 - 240 V, Single-phase, 50/60 Hz



MODEL : S-56MD1E5
 SOUND LEVEL : HIGH 38 dB(A), NC 31 / LOW 34 dB(A), NC 27
 CONDITION : Under the unit 1.5 m
 SOURCE : 220 - 230 - 240 V, Single-phase, 50/60 Hz



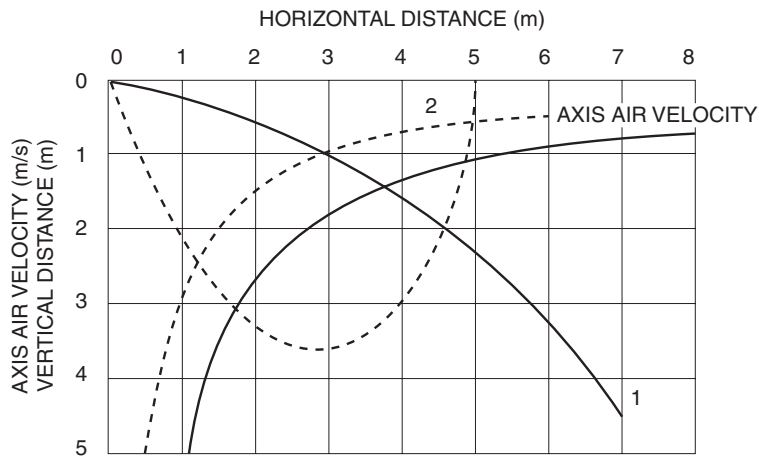
MODEL : S-73MD1E5
 SOUND LEVEL : HIGH 45 dB(A), NC 38 / LOW 36 dB(A), NC 29
 CONDITION : Under the unit 1.5 m
 SOURCE : 220 - 230 - 240 V, Single-phase, 50/60 Hz



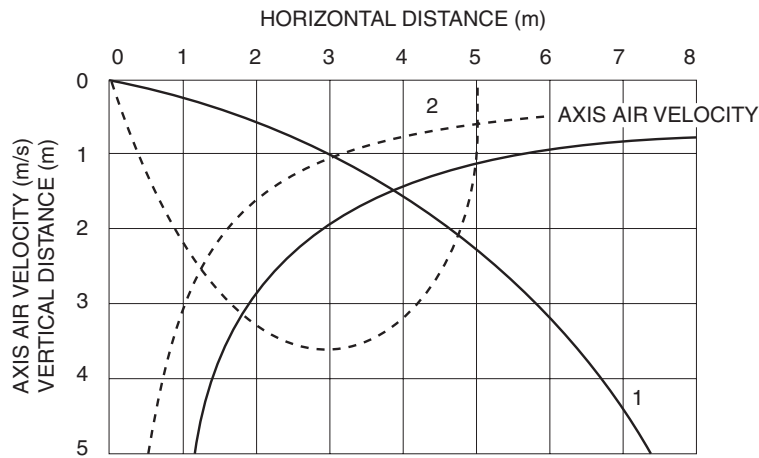
11. 1-Way Casstte Type (D1 Type)

11-5. Air Flow Distance Chart

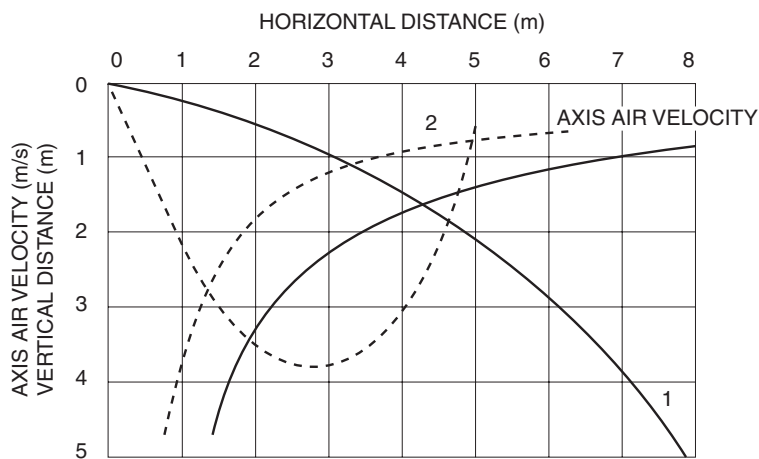
S-28MD1E5, -36MD1E5, -45MD1E5



S-56MD1E5



S-73MD1E5



Condition Fan Speed : Hi
 Room air temp. : 27°C DB in Cooling mode
 20°C DB in Heating mode

1 : LOUVER ANGLE 15 in Cooling mode
 2 : LOUVER ANGLE 65 in Heating mode

4